# **Back Cover Foreign Phones**



Cambodia. A card phone in a busy street in Baldemborg.



Cambadia. Another eard phone from the capital dity of Phone Perfs. It's nanored that there are no coin phones at all in this country.

Photo by Bric Tocker





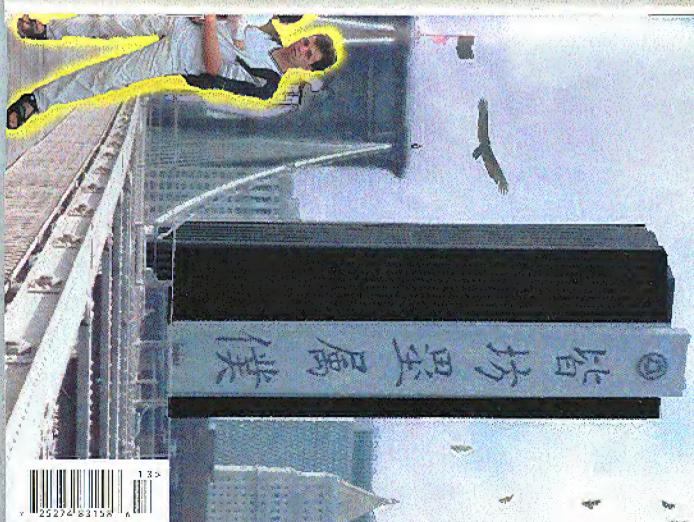
Geocce. From the village of Matphritise. We hope that son't a speaker bettind the gill above the gittene since it boks like throught easily dealer amone standing tilere.

Photo by John Klarcsmann

Look on the other side of this page for even more photos!

# The Hacker Quarterly

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"we all have to fight against the hacker community." · Judy Elder of Microsoft

# Canada, as quoted by the CBC, July 31, 2001

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Shout Outs: the people who came together to make HAL 2001 work, those who continue to help us all get through a period of unimaginable darkness in NYC

RIP WTC

Dedicated to the memory of Wau Holland (12/20/1951-07/29/2001) and the thousands lost in New York on September 11

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#### Hacking Kodak Picture Make Compremising Internet App Playing/with Owest DSL Netjacking for Complete Idio Hacking Retail Hardwa Bypassing Cisco Rout The Invisible Box Myths-about TCP-Spoofing Decloqing Copy Protection Offset Hack Letters Defeating Intrusion Detection Systems Hacking Time Passport Hacking The Utimate DRM Hack Code Red 2 How to Decrypt DirecTv Consequences Deconstructing a Fortres

# Consequences

It takes an event of great magnitude to really put things into perspective, to make us realize how insignificant our failly expectes can be. At the same time, such an exercise can trigger a chain of events that wind up magnifying these

It's faint to imagine anyone who hasn't felt the humible weight of September 14. Here, before our eyes, was all the confinitiation we exceed to see how undividized the human race could be and how vulnerable we as individuals and a society really are to these who value neither.

We feel the curring along with everyone else. Anyone responsible for such heapens acts, whether directly or by helping to organize them, deserves no avercy from any court in the world.

Rage; however, often makes us lose sight of some of the important things that we're supposed to be defending in the first place. And we have to be extremely careful not to add additional loss of freedom to the loss of life that is the legacy of terrorism.

What perhaps is most disturbing is the speed with which things began to change after the attacks. It was as if members of Congress and lawnsalvers were polyect to spring into action the moment public opinion began to turn and before contrain source had a change of regarding its dominance. Within boars of the bornite events, new restrictions on everything from encryption to among the day with broad new powers at lossing much easier wirerapping and members before fortener traffic were being proposed - all with lossing court wirerapping support from the terralized entities.

We find it absolutely unconscionable that onyone would use such a project to further their own agends with first of legislation. We will used a good amount of both receivly and it's all porty repagated. Almost every new law that's been proposed it something we've always seen in the past, and rejected. And there is very little contained within the mount of both received and there is very little contained within the mount of both as a little and there is very little contained within the mount of both the first place.

Our concerns can best be summed up by this quote. "Maybo the Senate wants to just so just so."

izens. Maybe they want to adopt new abilities to explain, and say we are changing the daties of gether, something that animaly on the facor can some focial But do we really show respect to the make us feel sales. Maybe, And maybe what the go ious people's computers. Méabe that will altext and adopt new abilities to wirelap our cit-We are going to do it with numbers on a page are going to do it with no bearings; no debate. rights as Americans, yest rights to privacy? We the U.S. attorneys, we are going to change your the Accoming Control, the Director of the CLA American people by slapping something to country. If that is what the Senate wants, we can Maybe they have increased Big Brother in this perforists have done made as a little but less sale that moleculy each understand.

Those returns came from Senator Partick Learly of Vermont, one of the few who seem to actually comprehend the serious risks we're facing. And when a senator expresses these strate of fears, it's a good idea to pay attention. The consequences of not thinking this through

weeks before finally being released on a cally allowed users of Adoba's eBook Resiler to so the combination of the New York City skycased primarily on the case of Draity, Sklyanov, before all of this, as anyone who reads 2000 being to Russia, was imprisoned for times signed well before the events of September 1. with his sun. (Our cover, incidentially, was dewould know. This column was originally for are so great that they're difficult to even grasp. violation of the Digital Millerature Copyright written have consider such a fearstation to be a legitimately purchased ellooks, our insured (PDF). Even though the software only works on trensente files to Portable Document Forusat various eRook Processor (AEBPR) which basis (Eleomsoft) manufactured a program called #idthis July. The Russian company he worked for locitito at the Deform conference in Las-Vegas reported. Sklyanov was amostod after giving a incidence) As the already been widely line amid harbingers of doors is a nither sad cothe Russian programmer proteined on our cover Act. Sklygrov, who had planted on retenule We've faced some senious threats to feedom

\$50,000 cash bail. Both he and his company bave been charged with violating the DMCA, an offense which could hard him in juli Ke 25 years and harkrupt the company. He is now stock in the United Sures manifully trial.

to go kwward with this case and many othersout of business for being part of this endeavor have changed their minds about pressing of our appeal.) Now we've crossed over into a he charged with radating the DMCA fast year Leading the charge back in July was U.S. Acrescharges, the United States government intends And despite the fact that Adobe themselves translate one format of code into another. An toally been imprisoned for rigoring out how to very commons set of section of Section has sochanged from a civil ocurt to a criminal court. only he a matter of time before the arena with the DoCSS case, we show that it would ney Robert S. Mueller III of San Francisco. American court seeks to put a lineign company (At press trace, we were still awaring the results Today to is the head of the FBI. Ever since we became the first defendants to

Before any of the really had staff started to hoppen, we were already asking conserves if things could possibly get any worse. It almost seems us if there is no firmt as to have had it can

In a strange considertediance to this thense of despair, we had the theatry and optimism of HALI 2001. For all too brief a period, we could forget the worries hack hoose and take part in what may have been the best hacker conference as far, where people from all over the world both the equivalent of a small city to the fields of the Netherlands.

It's heartening to know that such as condegree is still possible and as usual, it took the Daich to count us of this it is still possible for people of all cultures to come together and share everything from ideas to technology to the physical taken needed to bring it all together. And all of this in an environment where not a single security gued was seen, whose the community of several thousand people took cure of themselves, where two, if any didn't feel inpined by what the tracker community round accomplish if only given the change.

If anything is to get us through the dark days shead, it has to be this spirit of HAT, which is really the original spirit of backers everywhere culturation, exploration, exchange of ideas in a free and open setting. It will be quite a challinge to keep this spirit alive when there is so

much pressure to move in the other direction.
But we have to and for the same reason that we resist remotion. We cannot let that which we believe in be completel and solverted by those who don't understand.

scarce is the possibility that they know exactly uremaly offensive to anyone who has been a vicway as sometime who blows up buildings and life sentence without any hope of release. To means that hacking offenses of all soms (even es "fedoral temerism offenses." It basically of attions of the Computer Fraud and Alvise Act they cannot be allowed to continue down where they he going on this. But ignorant or not government could be this agriculant. What's even tion of true terrorism. It's band to believe our salvorages amplanes is so outrageous as to be extrespasses onto a computer system in the same ceregoriza someone who hacks a web page or noticed provision would actually categories vebe voted on without any public input. A tittle press, the Anti-Terrorism Act is getting ready to those committed decades ago) could result in a And they truly does understand. As we go to

on the case. Organizations like the Electronic down, even though that action had no bearing Dimitry movement was in full swing within dates, and to keep your eyes open on all levels to donate to them (www.eff.org or EFF, 454 public pressure was what got Adobe to back days after his anest. Demonstrations occurred Shitwell St., San Francisco CA 9(110 USA), to in multiple cities throughout the world. And what to do and can do it quicker and with more we will all pay a very beary poice. for the ongoing dangers to freedom. Otherwise future of locanology, Again, we encounter you Frontier Foundation are more aleit than ever people than ever before. For instance, the Tree years has put us in a possion where we know ing activism of the hicker contamily over the east our site of warmfreesklyanovong for opwhen it comes to cases that will decide the true In some ways we are fortunate. The increas-

We lost some architectural pillurs and a whole lost of innecent lives on September 11. Now the pillurs of froodom and justice which remain must be saved from destruction as well.

is because you can eachgure Foures to get its sec-

and I know for size the scentily layer is seaded

# Acidus@resnet.gutech.edu

Flacking Forego on any machine incomspicuously poorly configured macking is incredibly easy. chine is all but impossible. Backing Forties on a stacking Former on a properly configured ma-

the bell yet are doing. If you want to enderstand beginen or a teacher coases over and asks you what iride. And the thirting of a good excuse when the lisystem tiles-rehoot hack-tis system files-rehoot. this and do the standard "Rehvanhoot disk-Edit here this pretty real progents works, then read out If you just want to break liketics, stop reading

Corp (www.fortreg.com). This vession also runs of Win 9s. It's the flagship present of Focuse Count rhrough a nehaork. they may have a perspanent latered equipped on and anothe some anti-virus staff. The good thing is used in Ehraries that will have Win 5x, Netscape, will faid authing Forces will be low-end Pontiaras Fortnes on was Windels, so everything hors rates to N172000, however the test aesolide ) installed Wife 9x unless said otherwise. Most systems you This article refers to Focuse (2)1 version 4 for

change the book serven. Singly, Pil mention some of the weird parts of Fortres and how they could be have it protected from script kiddies who want to CARCING. aber Forces to you can run your programs, but still how it loads, how it works. Next I'll tell you how to First of all I'm going to discuss Forties security:

checklise of approved actions. That's it, very sintprograms, altering icons, and more. There are two once it is baseful. If an action wasn't allowed, you out drawing attention to yourself), or get into the curry layer from Josephy (meanly improvided withways you can hack Forthest you dan protein the seplo. There is no way to break this security layer that checks every serion you try to do against a freen copying or detering files, to russing entain will not be able to do it. Actions include everything Perros 101 emply adds a layer to Windows

> what files body do what. In fact, even in the Forms loaded. Formes also notes less and fake files to bide from stepping this society layer from being aneinty consists of safeguards to preventing people privilege scrip pogram and after the sertings since the coor of Featons is so simple. Further Tot help tile they lie to people who have legally

after in displays "Starting MS-INOS" and itisables ous OS. These settings force CONFIG.SYS to load IXXS.SYS is appended with the following: Box CONFIG.SYS. It peakes backups of the old files using the fonerion keys to do a step by step heading. ment is added. This removes the two second delay regaming them with the DWP extension, MS 75 CO 375 pundiased the sefewore. Grand Corp File Systemi. This is a trick. This is not C" and "end brack" so the user car't beli-In CONFIG SYS, the "SWITCHES" IF Nº Male dear bring up the toes exent or to boos to the provi-These options disable using the function keys to cr McDiack, DootWern=01 BootSafe=0: BootKeys=0 POCHS 386 is a device driver that keeps the Fosters the file that contains the security layer. I was unable bads, it calls a progress named #65A.EXE, which FOSC 5YS. All this file class is interespretable for it Also in CONFIGSYS is a device radical layer on top, not besing priority inside Windows to continu the claims of Elest\_byte, who says then leads PGCFS.386, which is called the Feuros AUTOEXECUBAL: When ASTOEXECUBAL To protect the loading process. Textres modifies AUTOEXECTAN,

both of these later. Wandows then begins to load. password prompt. This will be you disable fortoos tosted. (This can be terred off by adding "XQ" to that plays though the IC speaker. This is why if for this boot or put it in diagnostic mode. More on down both shift keys at this time, you will get a the FCSA.EXE (fac in CONMC.SYS.) If you hold Fortes, everyone will know and you will get you retear the machine before properly hacking plays. This is a limb time of load schooling sounds After this is loaded, the classic Fortres Scop

Titus, protectly HORTRES EXE loads the configu FCCNWKK,DLL, Abhb., this file is what we were defined in the AUTOEXECUATI). This program is FORTKES, EAS (the pick to FORTRES, EXIT was is leaded, and that in min loads and runs MS ration sattings from APPMOR.SET, which governs Bands the security layer, which is stood in FORTRES.EXE Was FORTRES.DLL which sorings which can be copied to the settings disc. eathat the "Soones 101 Loader" and this is not a lice GSRV32.EXE are fairly centric of my passengly. XERNEL32.DLJ server. This rotal part is here tubick inloads, and I booking the the elusine security layer. Our of these rhis time. This contains the default file protection What ECONORE DIT. Needes. This ends the part MSGSRV52.EXE

const from misses that of PGCPS.386 being used to receive actions on every took maring. This theory disego With these two DLLs. Fortres per sensor year action MSGSVK92.EXE will have TORTXEX.DLE that I'm not sure of Alter this lead as complete. Fileand POCONERRO, DELT. THIS IS US basis of my the the system tray. Every process started in Windows tien of the KGC topo in the losser right corner over sound alone program simple thews a little mainly barrood to the top left somether of the screen. This OGUEXE is executed and the mouse arrow is

to pay for Boss as well, and I have never found a HKEY\_LOCAL\_MACHD ESoftwareSticomputer it is used on. Once this has likitized lead-Peares (acceshess.com). This requires the admin crosoff/Windows/Cumca/Vasion/Run key. Once it Perfect to fixed in POCKETILEXE, which is oneing, it nots PLOCOEXE again. The final past of Proxy server for the Bass Internet Chang part of EGCZRÚXYEXE is nia. Tois program is the way, sentiating after the sequency layer loads burkebase those two DCI. Files looded as acadeles, Augthe andr is every task stug MSGSVR3/ EXE will all the tasks. Wit is heven invery you want to believe the registry 1000 EXPLORER EXE

Modern My Companion on the desirings Marcas Shall Merca Access Newwork Magazinana thaness Espirator on Find Files CHARACO DATA SOLL IN down. By default. Formes disables the system on all Horizo is now loaded and the modeline is looked is done, FLOGO,EXE rops a third and final time.

Aller Kods parameter paint parameter Acress Shell Contest Mount (right olich an Bros) TAKEN SERVICE ASCONTOLEYS 次代化学 医原状的 BANKUKAK STATE OF LEVE PROVINCENT COM PROPERTY. DESCO 686 1777 - 1777 POLICIO EXE NAME OF STREET はいいのではない RECEDITION will never ever run. By default this faction In addition, bentus has a list of blospograms if Separate des disade They mey (2007) 「2007」 (2007年2月) (2007年2月2月) (2007年2月) (2007年2月) (2007年2月) (2007年2月) (2007年2月) (2007年2月) (2007年2月) Same or white ESEL SES, BALL PHE DELL INV Especial Communications

ing on a drive or the executing on a drive. If a comrehooting the machine sets of an elaute. prevent Fortres (fee) keeing is dama haat. Even weed you so. We have already shown that trying to busically draphesible to do solubiling looy con't saving on all drives, and executes from only Chillis parents in a cabinet, book favor C only, has no folsokticion. Fortres can be set up so there is no sav-RECEDITENE to EDITREGIEVE, it would son Forties cody checks the name. If I returned

atriabilitiess, or ensushing for NF. Doing this can run ir from Winds by bolding down are Fortres. This is done using AJPOCOR EXE. You on the Network by type "Geographies name to Neighborhood, you can still contact to computers (b) to the is fig. so you can send tiles off the inand the thrip. However, programs in the Do Not all this security, you can still and nost programs. If causes a passwood prompt to popup. This is excely specifically property against you need to recoming IPs". However, to do things the security layer chine. Plus, even Georgic you can't per to Nerwork Run list can't be run this way. Something stoy uso file" dialog box is open you can right click on blos the computer. For some reason when the "open you go and do the filte open trick, you can boowed And you ready for some good news yes? Despite

Sorress Remote Bio

APPENDED SELL

"Disp "Addus Furtres Coscher" Program: Forties short integer. Here it is: :Input A

converts a number to be within the bounds of a

grains are needed - one that decodes and one that all variables have very large ranges. Thus two pro-

近年上に出版した :((A/2)+7)\*3>A Formes! (A+1)\*65533->A Cortrol.

affortness! :4/2->4 1.金水水一分流 PORTES!

:Disp "Password:", 4

は、日本人のながあ HI 4>32767 は人気が気がありない 当で記しませる。 第本部 13年記 いるののなかりは はあるはなると Programs Forthes1 1.32768+(A.32768)->A (32765+(4+32768)\*\*\*

> cOFGC and Fortnes makes the whole coupe direcware or NT server. If it's a local instalt, the file is in and wrote a program to get the password out of Fass\_byte, who reverse engineered the algorithm. with in Peops to the original Tornes backer tory read only. Forms relia the scholes not to mess Foctors, at gots its password file from a Novelli Netthe machine? If there was a activork install of you can make a fast Hotmed account and invitation passwood file ASYMBGR, SET out and creek in Hell, ractly, but possible randfields - year can fig the Now if the backdoor password is disabled - a

cool interface. When I hack something, I don't uring and the correct password has been entered, all chine. You that is eight, when APPMOR EXE is not guess what. You now have full access to the magaraber). The Footes 101 interface loads, and sec if you are using demonstration and checks social and FOCREGIBLL (registration uplay, checks to DILLS BAC FIOLOGO, DLL (888 SEPANGREXE) if it is simply an Interact the ninal, they won't), they an admin ever comes to modify the reaching (which but I haven't gotten this to work. In the General that is suppresed to let ramp directories be wellable. tory I can save things to. Now Fedres has a solding able security. The first thing I do is set up a direcbuck and he able to our contain tools and programs segret to destray it. I want to set it up so I can course (see, security results). The APPAGM, is a very security is disongaged. When you close the intawill notice it, but see that it's for Window's temp downlessed or offerindewskeep. That way, even if in a certain directory. I set this to make chainwithout having to open Forthis to temporarily disrion, don't even by 802K. The goal here is to be set condection. If the company has virus protecsounds lake a Windows default program. This way WINELE EXT GOD OUT CODY EXPLORER.EXP in the rack har, and you can't use all-tab to get to it. a hidden mode. Sy hidden I ancag is doesn't show ports anyway. You need so the server that can rup in probably set up hig flares, and a firewell will meet also site sharing and share the folder, but this will has free people who would destroy it. You can enebic to the programs and save, has still protect the something to take advantage of its peculation linterworking. The final thing I like to per on a beauts you can run serie kits) of shelt with Festes still and I rename it SPOOLER, EXP., or worselding that because it is at uso by Windows) to that directory file and assume it is OK. I then says File Protectials, there is an option that allows saved tikely be configured to block Window File Sharing After you run APPMGR.EXII it leads several

> igrupo la no esernanza or passiventi la needed to leg parted softhead (settles-lebellus.co). My only Thave found one selled a-fip, written by some guy WITH STREET tions. This makes the beautigent for saight kirdless on and you still get toll access with no config op-

cluding the ever impactant featurer int. This file can find the install tiles (they ought be in a gibberit Look in the Whadowstemp thectory and you can go to the PGC with page and sign up to access and the secial surption. With this information, you contains the enouperly the program is registered to you want with it? I saw this and I excited a believe The help tile is incredibly good. weeking version of Fornes on your own competer? port. You can take all those likes and install a foll the "knowledge base." This is their online recharge ish discours, but they are most likely thank incopy of Forties so you can my and experiment all How would you like to have your way own

ractory on the hard drive (c02gcd101)." This is a hides several lifes including (CONFIG.SYS) who have legally purchased the software to under-Fortres works. They don't even want the people stalk on the machine, and what they function as: Be. The following is a last of all the files Featres inthey don't exist. Also, the Forties help tile says that there. France blocks any nominar of them, as if They aren't marked history, they simply aren't AUTOEXECURAT, Madakays, and its help files. stand how it works. When Ferties fully loads, it Because of this, FGC is very socretive about how 101. It is by far the best security software there is: Tertres 101 anothers all of its files to a single di-There's loss of shelf that is weigh about fineties

APPACOR DOM: - solop intensee

APPMGRISKI - global satings and password file APPROPRIATORS - Telps APPROPRIESE APPNIC Runet - take tile, real purpose unknown

PACKER EXE - replication bacegor DETAINTEPA) - contrars address to Bess Sider-

CSPG CPTUD (This is a tudoto (arch + Hi direc-

DEFAULTIS4 - unknown storings - different from

DEFAULTIMA - pakingan scrings

USERILISTEFOU - contains used privately is TOOKENERS IN THE TOOKENERS HAVE UNINSTIBU - insphesible indicated file

DEFAULT.pxy - exact copy of

DENTER-HTDC - HTML page shown when Boss

EACH Tright, and DESTABLISHED.

SUSCIDENCE INC.

DICKS SIO

MOREXE F101CFG-DLL - unknown, seems to belp AFF

FIGHBELLS CNF - belp file F1015K.FG#-Tulknown **E101HELPJULP** - help file

FGCPROXYEXE - RGC proxy server - works With These \*FGCT.0.10XIX - stand above Windows cause FGCTSSYS - unknown FOOTSUSS - naknown

FGSA, BNB - FORTRES, EXP. Insider, becquipase

YFGSU\_SYS - maps Circle O'Break allows pellerences. FINSTEDILI. - reset în însedî - contains crarey (de AUTOEXECTATIONAL

PAYERRORLOG - log of errors connecting to \*FI.OGO.EXIC - runs bogo entination NTNOTEK/IXT - notes for an N1 install 同じ来自体的のである。 Logitar of the security Eager

Children Special Company of the Comp

Control for NT FOONETN'EDILL - network settings for Central FGCLOCN(CO),L - local calls for Windows NT PGGLOCAL.DLL viscal calls for Windows 9x

医のCNV医医の質が – the security layer – this is the NOTE IN CASE FGCNETNWDLL - Saide of POCNETNT but for

大の大を対象 J.E. into all rest. \*FORTRES.DLL - Look isotiond FOOREGAND. - TOO registration calls

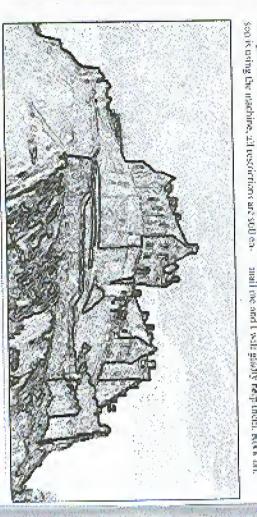
again trying to stick you. I don't know what APPthe options you have in Focuses is to export your as good as they are going to get. POCLO.FMI and Haraeven, when you expect your vertings, APPstation changes, while all others stay the saint tion of Fortes, the No APPAGRINET time/date espely the same. This was a mistake on PBC's saturgs to make it ensier to octup office machines Forties Ver S on now. I guess PGC thinks they are into are USERLISTINGUL APPWORSET, DE tion juto for Forms. The four files that hold this MGRINET does, but it does not bedd the configura-MOR NET is not needed. This research freedom is configuration and of When you update the configurapart, because it shows what tiles actually hold the can be you without Formes being installed. One of FLOGOLEXIE are both stand above pregnance they version 5 files. Tary were not rewritten and still say All the rifes above marked " are old Fortres 101

change Fortres to work with a progress. This log is the diagraphics window. What the illegal action tempts to access things it restricts. These are under clicked, FORTRES.DCJ. and FOCNWSX.DCL. in the diagnostics window is the stalky to Unload ing the clear button in diagnostics, just in case. Also arcs granted to disk and is peach when the system is rewas and what proposes reled to do it is recorded catled Control Control. It is a comore admin tool ching to fear is an accessory product for Formes 101 moved from all tooks and new task around hinded to which were loaded with every task, are than or-Fogres until you relocat the nachine. When this is booted. Before you know, simply clear the log se-This is more of a way to see how you add to the problem and that they hope to have a fixed by ers be compacted to a NotWate server. FOC has rethere is a bug that will not let tours than 15 compatthat manages several computers abusing Feetres able to check everything you are dring. Another these two DLLs and not EGCIS.385. Forties is there. This further supports try theory that Curough arands. I'm serious - this is what FOC calls them types of eccumpnist Public and Impolitic commin to see what each user is doing and issue two to any knowledge shall discontinue the use of Net-101. It runs on NeiWard of NT served. Currently 2000. Needless to say they have not yet fixed it and configuration is being altered remotely while a per-ALPPAIGR, is removing locally on the machine, if the and other admin work. Please note that onlike when lieges on a machine, starting and stopping tasks. Polite contribute include updating the system Priva Wage after version 4. Central Control allows the adleased a notice saying they don't know what causes Some woods of warning: Funces 101 logs of-

> readiate shalldown, logoff, and fireting the key-Broad. The Impelite consensate are things like inquiedly but calmly 8,335% things happen to you while you are lacking. Walk is can fracte the mouse as well. If may of those troord. I have also beard an underformed rustion that

a great way to make auto a program always onto ding note, FGSLSYS usps old breaks. Serbaps succe own peopsia that togets this too. On a different something APIOIOR toggles that tells the security able Swell when APPMOR is use? There must be (Sub7 server anyone)). Also, why does Fortres disogo.EXE after you close a consponent of a This is weigh about Figures. Piest, Piestes always outs FI. layer to take a break. You could easily water your exploit is MSCS VR52 EXE. This file seems to be you lug out. Finally, what I view as the most likely ging in ex "Administrator" will disable Featurs ami stupid enough to use it! With Wio NT, single losthe life allows for several tags, one of which is the FORTINS CINI life. To make instellation fasters AUTOEXECUAT basis? Another little hole is in backdoor server that is password protected pright need to oceans a task before the security layer, and outside the security layer, since it is loaded after the "Passaoria". Who knows, maybe someone was he a good thing here.) thus allow you to do what you want. (Again, ( kernel and itself loads Forties. Perhaps it could be The following are things I found that were just re-enzole them 8000

a well written program. Any system admiss out anail one and I will gladly help them. Book on. Frence 101 on their resolutes are welcome to athere who wear help on how they can combette I hope you better dederstand Fortres. It really to



# Passport 18CK

# by Chris Shiffert

りには他のないと同じを見るとなる機

mise a user's Pseupan account as well as countrie orde to do this will be given. However, this information is interested to be useful as accutence example. The objective is so given detailed analysis of security on the web while (illustrating ways to improve the world of some common misconceptions. I constate each some suggestions for using the existing Passport mechanism is well as This prints introduces a scentig vulnerability in Microsoft Bassport. Specific details explaining how to compro-

# 演者の古典的な理解的は

maintenance. quite registration. The intent is that useds thay register for a Passpert and then use services on various sites without have ing to register at each individual size. Seach is a heasy for the used in terms of time spectras well as continued password Microwitt Passport is a machanism or backgo allow means easier aways of services offered over the factor that to

references to the Pomport exestantism applies to both the Postport reself and the Wellet. rion to the personal information countrilly collected. This can be used as participating sites to make purchases. Fortier An additional feature of Possywi is the Weller. Having a Wallow allows you to work credit card information to addi-

## 中 いんぜんが無の事情ない

as channeled through the exten pon enabled site. There is no server to server communication identiced in the Personal machinisms all economic entering A Physpanius merely a collection of cookies stored on a user's computer. These creakies adminy the user on a Pass-

MSPRogu アギスサップ **PWSVis** MSPSoc MSPPro MUSTACE: MSPIlon MSPVis Light Sold That MEN The various cookees see throughout this provides are: wellet passport.com SOLUTION OF THE PROPERTY OF TH walled passport.com тоул подгаединуся snorthedesed mas.noqsseq passport.com passport.com nassport.com DASSPORT.COM ##3#38888 Section State WAT. 100 M Mouron City disk Menney Section. THORNEY. NOUNCE.

influentation stored in poddies not intended to be shared with the current such shape. Since the mechanism behind Passhas been the back of major obstacles to complicate impersonation. part is based cashely an exercise, the problems of this combination are obvious. The tirest sterling result of my research Microsoft lineanet explorer versions prior to 5.5 have a cookie sufnerability that allows cleant side scripts to reveal

# Handry Totalogue

CO CHARLES SEDE Supresser stempling to beak into a web site or web sensee will generally take the extent room possible. This should encrypted values. You will notice that no streage in decrypt these values is found expenses in this safety. Why not academic subject to purvise, the poers of this article is to slow how easily a mechanism such as Passport can be crucked Well, frankly, because it is difficult to do and absolutely unpaccessor. While organização, can be a why challenging sense of security because remeding is encrypted. The majority of the cooldes requirement in the previous section have A chain is only as slowing so its weakers that. Sound function? It is assumed up how durny progressive given a false

to be side to decopyrate values in the cookies would be to create a Puspert enabled size crypted backies to the site as the legitimate user, physical impersonate that user. The only reason anyone would need When a exer gody to a Passport enabled site, the site is said flows the decryption. By simply presenting the same on

do used that is not beenly as sixkening as the attempts of the MRAA (souther exponent) to feater this ignoreance. For these wanting to copy the DVIII, describibling these absolutely pointing to help. The fact that some people do not use brought about the DeCSS lawson. Descrambling the pretents of a DVD is only necessary if you want to play the EVD Note: If this all speeds boundaryly rambar, it is because it without the same absent unicomorphism that have

net discress. Planse relation RJC 2615 for the online prelifection. descending of HETP 1.4 and how a bandles cookids is expired. There are many details of HTTP that this article will earn in the case of many with developmen. To understand how I was able to componential Macrosoft Passywot, a basic on Med poyde who traves the web are families with HTTP, though the details are too often ignored or unknown.

web, the web browser (client) reades a series of requests so for conical title between account the format that the user vis-The basic HTTP scenario is a single neutronon consisting of a capital and a response. When a user is browsing the

Sample requests in. These web wroom in an a give respondents the browser that we made to conduct the early pages.

Mass www.allabs.org

User-Agent, Methidol ()

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Consection temperation her ye Encediage gap define companie Edition

(or burying). The periods leaders (blod) Clear Agod. Acopt. Adopt-Language. Acopt-Face date. Composite) in the some structure of the provide headers about in the HTTP species of the block header's consistent prior the web server. information that with help it serve the alignest integrated This sample request is much to harperly was stable any using a Modelli bromser to finditions have saying its section

complete suggested

Desc: West, of Aug 2651 22:00:00 GATE SOURCE TESTER

Server Processors (10.7 Contaction: Size

Courses Type applied Sea-Cooking: Columniation describes Religion of Participation Concernionate Ma

alignational to Proceedings of the Color of

parents at the action of the real contract part of (TMTH) reason so that provides are seen to the representation of the real action of the real part of the rea open until the response is provided that high business and bours. Each three team is shown, which is one of the works transport of the control of 1000. When the initial connection is made and the request strop, the connection returns dog heady for a value of close, while the Connection beater to the request has a value of loop wise. This explains the why vession management on the web can be calified too secure.

made to subdension of kalabang and there is no restriction as the path East, white no be written will be passed in a separate Set-Orakie backer. This works yets the particular which ambiguous tests are presented back to the web Most imposed in the sample HTTP response is the Sel-Cachin header. The various shown will set a socioe called schools with a value of chris. All refer information contained in a Sel-Cachin header is access information used by the remain in memory (pather than which to disk) because no expirative data was specified; it will bely be seen in express. other information is returned to the web server, only the name and some are provided. The cooks in this came pie will onwar to determine whether to send the value of this cookie to subsequent HTTP requests. As we will see none of the server, as will be shown.

ously sercochics as it makes a request. The following is a sample Cooke header. The last his of informative you need is low the browser communicies back to the wire server the index of pieces.

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to determine recess requirements only. If multiple creakies are to be presented, each one is three in the sums function (reads—value) and expended by a semicolog forme-vector man  $\theta$  -values t, thus only a single should booke is some Notice that contributation other than the value of the cookie is given will other information, as said earlier, is used

The Vulnerability

proviouslely differences to be wisewarch even), this represents a significant specific risk traded exists manifectors on pockies in he compliantly nationed. Due to the widespread use of coherable browers sep-Microsoft futuring Explorer between prior to version 5.5 have a major exputity velocitability that contaillow the fa-

http://www.yeorofine.cog/security/formobies/ There is an example of such a CRT of contraction contained in coachies that the server would otherwise be unable to read. This velocity it is described as Using a malformed URB , a web site pay send elect side series to the velociphe between flat cause it to reveal in

inger den med titelen over Siefer mat joke få billogin jorskipset entelpersonere

scene connection (steps), and running in Appendix. This URL is really the followingpage forced at www.b0talw.org.appear (to a value to is browne) as if it is wideln the Terpin-passport.com devenin, on a By using the USE expoled values of the shades and question muck (905 and 605 respectively), we have made of

https://www.https://www.jobaroof.jobp.htspilit.ps.apper/ com/ppiecesso/

with a domain of well-dependent com (PP/SVI) and PP/ST(b). These last two can be programmed by explacing "be-If you will recall the Postport or object faded parties, note that this proys as access to all cookies except for the own

gin" with "wallet" in the allowe exempts

port cookies contained therein. Thus, we cannot the this beaker to extend the Passport workles from the bowser and two respons. One, the reguest is sent to the comes have (www.82tabs.org). This is necessary, of course, for the composmust develop an abordance south od. This is where others side scripting cortes in. when it work. The other thing to beng is mind is that the boowser will not cause the SUTT Cookin backer with the Powe Vulnerable between do not interpret this USD interprets, when making the HTTP request. This is significant for

Citiont-Side Serupting

For the genpotes of allustration. These chasta to use javascript account instructed scripting lenguage. The following

renormalities nerselesseless, so this rembensed as the guery string on a URL as follows: the user into sending the cookin influention but to our webserved. Obeveniently, the formal of document cookin is portions and dogin passport over domestic and append this inflamences to the CRU of a link out with he exed to trick example script can be exed within the revest plap page in the shake example to perceit all Passport cookies in the gass-

<script language="forascript">

decomposition (a) decomposition in the decomposition of the decomposition is a decomposition of the decompositio

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# Putting II All Together

sulperability must be exploited, as must elient-side scripting, to write the coeffice, there is an example of energy the of swiding security restrictions, but this is unfortunately not a reasonary step in the composition. This same browner spinned's havener. A with effect could be created to perform the impersonation, which would be more desible in farms Once the date is explicted, a pickup site must be developed for the purpose of networking these isothers on the impor-MSDS to took in jewsen proxime PSP to the water side scripting language). We now have all the pieces necessary for a full congramitie of all decreasation twitting Purspan exer's expired

Children ( addition the state of

direction mentions for "MNPS et - stacks Simple of "> direction paragraph companies hyperties agrees that 18-Dec 2637 08:50/46 CMT, accurating

options being "inconvenienced" by bacing to enter their person end as you browse the web. This includes the ability to exet by Passport. With all pockies present from each of the three deposities. It is possible to ingervenues someone with view and a high-rescal information as well as perchese items using the second conductord information Notice the system is the same as in the HPTP Set Cookie brader. Use this fact to belp recreate each of the cookies

ALL PROPERTY OF THE PARTY OF

successful under the following goodinions. Though this compositive is easy to accomplish, the most frightening disposing has been that the imposition is

Diffee user has happed out of Persport.

2) The imperiors to is using as entirely different (Paddiess (at tour octools

3.11be impresented is using a different browser.

stored within some of the pockies used by the Passpoot mechanism to add an exercise of security that would make as tacks sugh as this for more difficult. (appealing consistently provided by web incovers that can help volklute a Septemble user. This julistance could be the exercentence that vendoes such as Microsoft are trying to provide therefore. However, there is a several pieces of in-It is very difficult to exest a Hill percent secure mediants a sing HTTP, simply because HFTP does not support

polarize some fluctivition, with as in the last two exists. Also, users should always be required to provide their passered dress of the user could also be seared and validated, though common use of web provide would make it recessory so helione purchasing items using the Walter Commissioner should not always take procedures over security. ing the test to nonter the password upon limous regardless of any professions the user scattered to make. To the state matters whit. Acretion securely measure would be to time out the mechanism within a smaller window of time, thus force necessary to replicate the user's browser. This would containly not be impossible to accomplish, but it would be optione For asympto, if the haded value of the Heat-Agent header was contained within one of the conduct, it would be

are currently the case and represents the targets mistake Microsoft has made in its implementation Locky, and most importantly, a werrithe logs out of Microsoft Passport should be safe from impersocation. This is

Wishing Bulling Stimus

coeffic dominioned above that is used to authoratically log you in without having to receive your password at particle but when logging into Passport that sends. "Nigh me in account/only us this computer." This creates the M298ec paring silves. When this cookie is compromised, it represents the protect their or your account. If you are a treat of Microsoft Program, it is recommended that you because with great even. No not even check the

mediately after your Yan. Lagging out essentially destroys the majority of gran cookies, to dut they cannot be soon promised by farther bedesing. It is also recommended that you only buy into Perspect before booksing vites that require Perspect and top teat in

peach available to rapsin Gestleg. Named as Expelly we unique electromatecta obsequity finite introde 000 asp. ing a vulnerable browser, Microbalt Internet Explorer (all vasions prior to 5.5), and with a continue using it. Our in a Most imputantly, I reconnected that you do not use a however with the vulneralistic I have described. If you are us-

Figure Zono

would be a wellers execcise to come of scalabolic adherement. siding their topin credentials to pose web site. Since this requires our extensionling of how Passport is implemented in who is probably the excited way to exemplo miss someons's account, so it outly requires that you find someone into pro-There are likely many other wedernesses to be found in the Posspart mechanism, larger securing a Paraport enabled

accesses fix a complete compounds is given, to yellody no backer would use such information to an unrethind matter, as such as not would completely miss the point. well as provide a cleaner redensearding of the types of challenges web developers are facing. Though all information The areach officered din this gridle will have fully provide a better understanding of extract such technologies as

2600 Magazine

There are some purchases that first need to be ing hearnest down from gentyachronous orbit can listert in on these energeted radio waves heleast for North Americans it isn't. So you too their broadcast signal were directional hid, at The folks at DirecTV would have liked it if

signals. He wary of frees in the winter. They always seem to grow leaves by sugamer and block Seys. We all wise we were in Designated so do our A house with an open view of the southern

Clear Allowards (1910) will page some serious problems to extraoutriccard. (At the time of this writing, the Hu card will want to perchase a system that uses an H A DirecTV disa and receiver system You

A television set will probably delp.

service through Directly (www.directv.eren) and more is what you with gen but the readers of this publication want more With these horse you can purchase nomicl

Have to Bust Roof on Year II Card

this artists. Back to the section. by going to some of the websites mentioned in hardware. You might want to start your search There are a few sites that sell this particular

You will nove some hardware to get this job

thursdation been the requires to the Highest coldusiast, it allows you to watch the comsembles your Direct VIII eard but it has a sersal part cumnection added to it. For the peak An IRD interface. This is a device that re-

of enrulation to work via serial port for the process His programmer will also need read and write the ISO 7816 chip on the will used to sead and write the H eard. You want an 180-2 programmer that can A card programmer. This programmer

A computer 486 50 or higher with

the 32 bit receivers outpace the 486-50s. tion 25mbs (or higher) and the serial parts Christid have 16550 CARTs (or helter). Some of iwo serial ports. Rocontracadod is a classic Pen-

An Bleand and a valid birrary image of an B

SOME SOME SERVICE For educational purposes, you will also need

current version is: BasicH v.32. your valid binary image. If things go wong thas 24. The package will allow you to keekup enhancements specifically for the Direct'V enworks with your ISO programmer and has some you can always restore from that image. The BasicH. This program is a bex editor that

Wind Splaner 84.51. programming gots done. The current version is: party scripts to interset with the 180 grogiansties A quality program that has source examstes for those interested in bow ISO card WinDxplorer, This program allows for third

asside more about the H card. The current version of TurboAux is: FurboAUX V3.0. script, the source is available and our teach the the east to deAUX the eard if need be. As a waris with the emulator software. It also allows planer to AUX the east in soder for the eard to TurboAUX. This script works with WinEx-

ていうから の「この本書」の のの本をとい and tell are that you love run? The current formation it wants to bear. "Lie to the receiver happy with the decryption inacts as the go-between for the H card slog#. This is the emulation software. It ready written to while keeping your the IRD interface, and a Social binary vents your H card from being of your If cand. This program pre-

Setting Up Your Brute Force Attack

you want an easy back, go find the garbage the one said this back was going to be case. If stuff you just put in my living room." Well, You origin be thicking, "That is a local

> where and if the motivation is getting feet pulsa. ing their skill for the powers of good. backers statted in the world of wde3x belone as standards somehow. It is notable that a lot of thoughts and aleas. Everyone has to start someand contribute to the DSS community with your you will not have to think much, just follow inthat is OK with me. We have to set our moral lads and eases will pack up on how this works sauctions. My hope is that some of you bright file on a Gibson. In reality, this is an easy back -

its brains i.e., the ability to therept the hashes and the craulator sends the data in the programcand, the IRD sends the signal to the computer. som to it. The receiver sends a mossage to the ther with the H card for decoption. on a real engineer. So the H card is needed for peeded to fool the receiver. You see, no one has tors: The pergrapher, IRD, and computer are stuff?" Well, the TV, dish, et al are self-explanaoves. If sooms those folks spent a nickel or each deached the encryption system that Directly that this does not answer "why all this

Nel-sprogrammer w/ACXed Heardy perco-{emeleon}-keempagen—[senal creceiver>---<]RD>-(serial cable)---coop-

efter durk) that could damage year card, like the prevents Directly from sending roughly are put in the local binary image by the emula-(ECM) of James ry 2001. now infamous electrome countermeasures mangley things (I'm not tacking about Cinemax tor and nothing is written to the H card. This itures four space for the H card. those updates When Directify sends updates or other

# Recipe for the Iron Chef

enable mode and look at address location SPOX: some bex editing to the ourd. Put BasicH into

Check to make serv it reads starting at 8000: 33 15 03 4A". According to the good folks at

intage to 65 updates. Then you will need to do

112600 bin in Basic H. You will want to cheen the

Next, you want to open the backup file

chaf you will be home free. So let's start cookterms do not early the Iron Chat, but with the work, the true (The I will wow, Many cable sysare 1500 the collinary arts, but on the Book Nee-Diags running. I am not sure how usary of you Here is the step by step guide for getting

Connect your IRD and programmer to your Programmer. computer's varial ports. Fut your H card in the Connect all of your hardware for action

a 745 error. Don't despeid if past card hacking 52600 bin. If it is a blacklisted card you will get has failed you - we can still help. (programmer) and save the epoint file as Run Basic H and connect to the operaturater

in case fluings do real work part. rectory. You will want to keep the original copy Make a second copy of that file in a new di-

when you are required to be the layer of the

peaks a stray access to his a bomes a glass for all indian all processor additional manage system (50 moles) relating the processor additional relating the processor additional processor additional for the both of the processor and all accessors and all its leading





ELBR

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SSO

Do Not bend Access Card Do Not Remove and Re-Insen Card Unnecessenty. Nover Submerge Cord in Liquid or Use Cleaning Fluids On It

A2 daylight or 22 staretard Maintrain time A.4 daylight or 24 standard Central time. Ab daylight or 26 substand Eastern had AS dayleght or 28 standard Attactic rine A9 doylight or 29 standard Newtoundland rime what you want. Time zone bits are: considered part of. Those bits set your choss 8415 for the time some you wish to be the TV-FIX bittorpaint file, this is part of the at address 8384: 150 04 1F 68". According to

"cardacraber" addeess. Once complete, edit ad-

the "continion card data." At book the receiver 3000-3007 address range is often referred to as will be able to emulare. For the second, the www.backho.com. this will help ensure that bi-

ratios taken from Black Sunday FCM ed oards

line checks to see (foddress 8000 is 33h.

Next, go to address 8384 and enter starting

extracts clock to the extract time rene, but do

2600 Magazine

For three who might have gone all out and purchased a "Pits" receiver, yea will want to edit starting at address 83/C8 and enter: "55 3x 3x 3x 3x 3x 20 20". You will want to put your zip code where the x's are. So for a New York City zip, you would put 55 33 \$0 30 30 31 20 20 or zip code 1000J.

Once completed, save the apmin file as h26000 h. Romember, this needs to be from a salid H cost since the emulator will verify from this binary. The H cost insected into the programmer these not need to be valid from hore on out, since its only purpose is for decryption.

Before we AUX the H card, we will want to use basic H to "was stop clean" the card to 28 updates. Once this is done, you are done with HasicHundi you decided to further experiment.

Year, we consisted the 44 K and This for-

Now, on to creating the AUX card. This turther conditions your H card to act as a go-between in the condition process. You will need
to justiff WinExplorer.exe that and then you
will be able to open the ToubaAUX.xvb series.
USL (Use the Source Lake) on this one. The
avb file has instructions and information conmented at the beginning. Using the program is
not difficult, but expections being informed is.

Go shead and execute the TurboAUX.xvh script using WinExplorer, A small window will open up. For those Tcl/FK fans, you will not be disappointed. Fix the test of you, expect to be disappointed with the GUI. From the new window you will want to click the AUX button. The them at the sole most time sensitive of them at the background if you have nothing minums in the background if you have a slowed 3986m.

Finally, you will need to create a DOS book disk. Under Windows 95/98 it is easy to do from the coptrol panel. You are on your own here though. Once the disk is created, you will want to copy the medified binary h2600 bin to this disk. Following that, copy the emulator software to the disk from the SLE44 archive.

You need to expy sice sleafle, pusce file to the book floggy. You will also want to read the newindburk file in the urigination to see what other continued line switches there are said some things you can do to truebleshoot timing issues.

Now boot your computer from the boot thoppy. You can automate the next steps with an automate chart if you are so inclined. For this example, we will assume your IRD card is plugged into contrast the ISO programmer is

connected to CCM2. Your book flopsy should contain system files for boot, the h2600-bin binary, and the ste44e, pieze enculator application. Thanks to Pieze G. Marrinesa (FGM), the dirty week of the communication between programmer, computer, and covelves is squared away. You will want to power off your DTV acceiver at this point, Make sure the AUX of the certain is in the programmer. Once your are becomed.

Alto stedder pria foet spaz is 62600 bin

Give it a moment, and then power on your progiver and change to channel 100. Give it a little bit so that the ensulator can syne with channel 100. I am not suce if syncing with 100 is necessary. There are mixed reviews on this and there is some information saying that 100 sends initial sead information. Thus or not, I have found that channel 100 less fixed things in the past. So it is recommended. Also, some IRD early jingding might be required. You're a backer, figure it out.

you eback the formus on altidas, hack or some of Spend some time and weach what is gaing on. If mand line switch, you will see the economiciation so that updates are seved to the disk for the type "Q" in order to quit the slettle\_p applicamonetary, your III card is safe. You will want to and just apdates them in the Ir2600,bin binary in case, you should be just fine. Boosuse the aroutempts to kill medded H and Hu cards. In this the other online forums, you will find continention between the examples and the received next time you book. tator traps the signets being written to the card These forums usually discuss Direct V's actury about some of the more interesting streams If things are weeking, because of the is com-

#### Same Notes

From the enti-fag: "Thus for, the only onliversally condition-incompatible IRD known is the Highes IV series. However, some untidators have reportedly not been able to work with Hughes B2 series IRDs and RCA322 series IRDs."

For those looking for something that will run onder Linux, look for a file natreet piker-0.01-3will-11(1), range on the rest. If you have too be finding this on the web, you might want to read to the end of this article.

The Hit card is the next version of the H card. Currently emulation is not possible for Hu cards. These eards are susceptible to the ECMs sent from on high.

# Additional Resources

threats from the United States is able to affect NAFTA trade perties states, the species of legal (www.hackbu.com) down. Odely, this site is legal threats under the DWCA. Also, the moderhas discontinued his week on the project that to of ands is called Picco withten by perglats. He the DSS epithosiast community. The application crivers brought a factorem of legal attention to wark sharing of a single II card by many resoftware for Linux allowing for distributed testthe Capadien citizen. bosted in Canada by a Campilian but likely due to the Best resources for the DSS carbusiast ator, because of threats of higgston, took one of dashdotledg about a version of the cutofation At the sine of writing this article, a post to

In addition, many of the text files and binaries mentioned in this priich are becoming harder to find. An excessurers, there are massives

for fair use of this cechnology. For the technically outloos, scoops to how this equipment weeks is invaluable to the psyche. I myself reconnected anyone playing with this technology get a subscription to DiporTV, if not the most basic package. We as backers are not here to chest. We are curious and our desire to investigate and discuss this curiosity should not be a crime.

Anythow, you can still find more resources to this topic at www.dssunderground.com and the best resources I found while constructing this focument was pirou-research rip. This life has a hadgepodge of mentalion that nerg343 used to develop bis aport these files and information that nerg343 used to develop bis application. People have made calls to past all of those files and information on the distributed applications and information on the distributed applications and information on the distributed and possible by Grantelia.

Enjoy your television and try to learn some using about television by hacking DSS.

# code red 2

# or how to snonlymously get root on 250,000 machines overright

#### by Braddock Caskill braddock@braddock.com

This actiol describes a meets through which a complete list of the estimated 250,000 CodeRest. If infected and backfoor compactivities through which a complete list of the estimated 250,000 CodeRest. If infected and backfoor compactivities that has been keeping a web server log of attempts on his machine, by using the backdoors on the machines that have attacked him to obtain the web logs of the infected latacking IIS web servers to learn of new infected basts. The strong economendation from this report is that as part of any CadeRest II recovery effort, the system web logs should immediately be described and futuration. Describen. Systems should be checking for and triating recursive attempts to access web logs though the backdoor.

The CodeRect II weren less been infecting IIS web servers with a speed equal to or greater than that of the original CodeRect. The original CodeRect are all volontable machines, approximately 250,000 been, in under 24 facurs.

Watte CedeRed I was relatively harmless.

CodeRed II installs a full administrator-access back door shell that can be accessed via http:

This creates a very interesting situation and,

with the techniques discussed in this article,

opens a new potential door for mass system.

a trace of the worm's specific All records of the information aparteum in get it closer to some allowing a trace to the original author. A more mail or otherwise communicate password files traced back to the perpension. Princitive and inster a very clear trail is occated that can be IDN systems can beyen be removed. transmission in things like firewall logs and accords of the transmission. But this too leaves origination node, and make attempts to destroy sophisticated worm might attempt to just pass de information back to some origination point paive words of viruses samelines affempt to otransmit the information back to the seem ongto obtain some information of value is that to The position with releasing a worm or virus

It is difficult enough to find an anonymous enough reaks to make the initial release of the

The affectative to this was alterupt to make the information the waven gashers public, and then attempt to retrieve it just like thousands of eithers will. For example, a worn might send passwood lists to a fiberest newsgroup or payd it in some public forum. But any public forum usually has some form of moderation and administration, so any malicious information at such a site would not say online for long.

In addition, the more sophisticated the initial worm, the more stylistic and languistic "ingarprines" the original author will leave on it. Posting to public features may well deable the code in a simple worm. If an author has ever made any of this code public, theremay well be government agencies that could use code finigarprinting to narrow the field of suspects, perticularly if other profiling information can be

If a true "anonymous common carrier" system like FreeNet is ever successfully put from place, this may well change the landscape. Byte true and acceptality will probably always remain clusive cone national security or currency laundering orderceability is at state, even if unfortenate Beaconian legal means are required to

problem of a fixed "drop point" or communicaconjuice, but that leaves us back to the original Perhaps a public key enceypied log could be the special untraceable to the originating nexteto by short and easily compiled list of suspects. clse, can perform massive network stars for integed, and indeed no log is essential to keep The storm also keeps no kee of heers that it has the backdoor, but that would put him on a ratasocret deep point. The originator, like anyone hosts communicated back to him or left at some Alter all, the originator has no list of infected backdoor is of little use to the worm originates: scanning for new victims, Ar first glance, the coss backdoor shall man the victim, and logins simple worth, inserts a simple administrator-acforest alternative. CR2 infects its hasts with a CodeRed II. however, presents a very dif-

lack of usefulness appears to be the case.

except for the fact that the Internet is now saturated with CR2 worms, each leaving seeb logs across the batternet full of recents of buffer overflow extengets, with the infected functional address. These stack attempts perform an address threat extract attempts distributed the extension of the extension past, And they do so in a way then leaves not direct trail of initial spread of the worm, and thus no direct risk of discovering the originaring node.

It is means that by the end of the first week. I personally had in my web log the IP addresses of over 100 ransion hosts with full-access backdoors installed that I mould shack directly. One hundred hosts on different ordelated networks is a large compositive, but not something that requires a massive Internet water to achieve. This is not enough white to make the plague of a worm worthyebile to its originator.

since only an estimated 250,000 hosts will be tempts by random leasts. At this point many of is for greater than random hosts with backeven it is clear that the implication of this worm infected (this from the CRI estimates), howthese altempts will be from duplicate bosts. terning a list of thousands of pricetted books with decay. If provides a clear mechanism for obmodes), and I will have I,100k(04) break-in atlevel (preferably originating from the broken now have backdoor access to approximately resinise above. That means by breaking into the random infected hosts each that attempted to servers with logs of, for example, another 100 fected hosts I know about are also IIS web 100°100=10,600 basts! Repeat this enabled 100 bests I know about and reading their logs, I However, each of those 100 random in-

While this technique is nice, it is still rox enticely untraceable. IDS systems will surely be leading for this type of backdoor exploiting teaffic in the near term, and contacting several thousand hosts either directly or finough a worm backdoor distributed mechanism will be detectable on seans level. A full list would require the accursive retrieval of web logs from several thousand lexits. However, the origination of the worm biroself does not need to fear exgression, he has assentially made this information available to anyone who understands CoaleRest II and its implications described above. A public list of all infected hosts is probably already available coaline.

# The Online DRM Hack

by The Walrus

"We'd like to be retirably integrated from the nominal of emplitus right shrough to the nomost of faithers." - Rugert Murdoch

Shane on us. We've been squandeing the very bing the most powerful media ranguate no the planer tosts after with all His heart. While our minuscole backer hive bozzes with aintest activities ranging from endding IND energy-tion to excepting Microsoft's Moth Encoder into Divot, the real power to publish is being systematically and subversively returned from our economic grasp. The power to scall is overwhelming the power to share and the real victims will be our children.

What am I harangoing you about? Digital Rights Management, simultaneously the mest liberating and oppressive concept, within the markers computer world. DRM, as it's cosmily known, is a class of computer systems that control access to data in its myriad forms. These systems are complex, expensive, and represent Big Media's last stand against the notion of a fair, non-prefit oriented means to get excelled data to its consumer. Even the company names to this space sound eminous bremmer, Lockstream, Microsoft.

So when you say - we'll hack the things Rupert, Tilister, Gates ... they don't should a chance. We'll, maybe we will and maybe we wen't, but the goint here is not about tracking your way to feet capties of *Star Tesh* - The Law Generation, it's about telling the story of how you did it. And about getting your story published and deviributed the way you want it distributed, not the way Eig Media wants to do it.

Lot's get real here - any reasonably sophisticated DRM has a few contains components

1. A device registry. These exist because Big Media wants to dentred where the creative data actually goes and forw long it stays there. Cost with tree, no problem, so long as it's right creative data. But what about my creative data? Who's going to council where that goes? Left

unchecked, the answer is Big Media or nobody. Nebody may sound like addicent answer to you but if you spent six yours creating this data, you may want to at least got acknowledgerent from people who are using it and like it. And, maybe you'd rather not bother them after they've acquired it onto their first device. Plus, maybe you included some sort of value condition (like an advertisement or subscription) that is assessed based on the number of consumers you have. Maybe you buy food form the proceeds.

2. Encryption. Generally, the gander-variety stuff, as it's peacorably difficult to hack it's a waste of time to hack it anyway, as the back door is assaulty ieth wide open during the events that occur on a computer after stuff has been deep that is at the root of the most organisate tern that is at the root of the most organisate aspects of DRMs It leads to the design and constraint of electronic devices that embed a private contempties a approach to controlling any data than shows up on that device. Again, coal with me - it's their device and if I don't want it I don't buy it. But what about ony creative data?

3. A Rickager. A packager takes the creative data and propages it for distribution under DRM exerted. They often embed outs little features like the ability to create a samphalone program that, on a rangel computer, can access Operating System memory space and perform intensive, privileged acts take deleting that. Again, cool with the so long as if a their data and I granted them, through some sort of fecture, the right to do so, that, do you thank for a second that a private citizen such as powerful took? Think again.

4. Keys. Every DRM has keys. Keys are offten hackable, but they are also immensely powerful modhanisms for enabling a prescribed sequence of events to occur on millions of computers. Why would we even consider leaving such power in the bunds of private enterprises?

DRM companies are undergoing their first count of shakeouts, and as any figurounies 101

student knows, only a few will be left standing. DRM is a commodity, which means - under the track outcountly underway - one company will eventually doctions (think Microsoft). The notion that consumers will use multiple DRMs based on which creative data they choose to consume is ludicates. The architectural undergingings of these systems are just too weak, which translates into too many bugs and too many hoops for the Average fee to jump through to use the erestive data. Heard any BlacMater music tracks lately? I didn't think so - and neither does BlacMater.

There's a massive issue at stake here - the opportunity (not the right) for individuals to obsein the stone, or belien, level of DRM capability as the big buys and, in the process, to make such the one DRM left sunding is as reduct as possible and provides equal opportunity for all, from like Lioux, FTP, or Teines.

to consome is limited by orbical behavior. Sconour children that the opportunity to publish and and abilities towards the creation of this system tinguish the operation elements inventible value tion the TETF to develop an open protocol for 年を正常 (名) 回答 compete with Big Media is theirs and the right founds of the interset user. It's time to educate from the bands of a few individuals and into the and control distribution of creative data away fix it. It's time to wrestle the power to publish and to use our hacking shalls to break it said to DRM marketplace. It's time to dense our skills the compositive circus that now exists in the added elements and to create a framework for the extraori elements of DRM. It's into to dis-It's time for a call to sums. It's time to pet-

The mehnology is close enough; it's new about economics, warinkny, and scizing opportunity. Make your opinion board.



Lara not a maste pitate. Lara a Chendisc (though (Ri Mons)), so still time many DMCA rules don't (currently) and in me

1 (who if Jew topoted) CDC, at 1 (100 percent legally) ripped and amoded. If don't over, own a serior system, just any computer, (Koguing any computer rip to date enough to play the latest games is plenty expensive enough to it is!) When I buy a new CD, the first thing I do when I got it home is drop it into my computer, rip all the marks, and enough to MPD.

langue my innerviation i hought a disc that teld me:

"This sadio CD is protected by StrenComm (TM) MediaCloQ FTM1 Ver 1.0. It is designed to play in standard. Audio CD players only and is not intended for use in DVD players."

And sure enough, if I gut the disc tate try drive, all my depicts program could see was a bunch of data tracks. I had to tag, plend, and barrow to use sampled by their's portable CD player just to these to one disc.

## How Media(3u() Works

ModisCNQ supposedly "pretects" sedan CDs in two ways:

If Deliberate errors are introduced into the audio dissertation so that ripping pergrams introduce gops and clicks into the ripped data. Normal CD players have circuitry designed to cope (white or less) with corrupt data, such as caused by spareched data, so they can interpolate the missing data with the Estate date with covering data. If the tasks are masked as observed as that a computer what recognize them as audio. All of the audio data is still deere, laid out on the disc exactly as you would expert, except that you can ripide a fracts and select "Day". Samebow this dish't seem (to me at least) any ractor of a protection that that lafe "Copy Protected" bit that all. On rippers already ignore. If you could just point your ripper at all the ripid section, all the audio data is string

pon. This cannot qualify as a "protection" decide. Decrange (TD-KDM disease are *ideligned* to read raw sectors from a fill for dise. The early thing proventing programs been cannoting adormation from data cache is that the data of the stand in particular units to use he is not usuably as diseased you wouldn't want to risk blowing your speakers by pip any random noise through them?

### edparational

My favorite CD nigger under Linux has got to be expurencial because coder the GFL (its house gape is were excipted aggingments). This program was already designed to deal well with scratched CDs, so powertion method one above is already dealt with effectively. The only shing left to work anund is the data vectors such bit. Herei's a feet code suppose from expansion, with the offending lines marked:

edparanoia-Hil-alpha9.8/main.et

this : code

899 : switch(cdda\_upen/dii)

909 : report("willnable to open disc.");

\* 910 : edi(1);

911119

Function odds, agest extorms "-405" if it cannot locate any soudio tracks on the disc, which causes odpuranois to die here.

line : orde

1000 : forriernschildestrackittin)

10f1: if(fadda\_track\_audiop(d,i)){

1012: report("Selected span contains non audio

tracks, Aborting, win Ja

\* 1013: \* exht();;

This section of the code is similar except that here it is verifying, one by one, that each of the tracks you're trying to rip is marked as aiddn. Any data tracks in the bunch and edgarancia dies. Bypass both of the lines marked "4", and edparancia will happily read any sector on any disc, whether narried as data or andlo. The patch below udds a command-line uption "-M" to do just that.

— main.c.nrlg — Sat.Ang II 16:52:25 2001 +++ main.c — Sat.Ang II 16:52:31 2001 @@ -586.5 +586.5 @@

-const char \*optstring = "eseCnsacOrdrg:SyprRmafvqVQhZz::YXWB::Tt:": +const char \*optstring = "eseCnsacOrdrg:SyprRmafvqVQhZz::YXWB::Tt:";

struct uption options [] = {
 @@ -@?\_A +@?\_\$ @ @
 int query\_unity=0;
 int batch=0,t;
+ int MediaCloQ=0;
/\* full paranota, but allow skipping \*/

100 Car

图像 -791,4 +792,7 图图

sample\_offset=ates(optang):

2600 Magazine

protecting to the few years absolutely reaked and unexcrypted

- MediaCloQ-1;
- deliaulta THE STATE OF

usage(stderr)s

のの 1986年 4910万 のの 000000

- breakt
- + (350 -400)
- (InMediat.16Q)
- defaults break;

report("attrable to open disc.");

@@-3008,4 +1015.5 @@

fur(i=track| ji<=1,96第744+) in Datedia Cloup Effication track\_auxhiop(alaip)





#### hotsabi@yahoo.com by HottsAbi

catering the unknown. Each time you found a lagged it for a later strengt. madem maaka yeur softwaco shootii have hers in your sies, so new comes the time to start Perhaps you've scanned the telephone num-

gates (Jeandice, 16:2). Perhaps you may de-CORAT SEE A TO TOURSE SYSTEM. you may be selling. Other numbers may be ted of fun there unless you have some product Some monitors will be few machines - not a

Mounted on the wall, employees "swipe" their clock and maybe someone will not get paid. if you find one you may want to know less to tion of a reasse tiasylack (see Photo 1). With that out of the way, or to a knot descripthe stored data held in the memory of the batedon't my this at home kids, as you may damage reading this. But first the disclaimer Please Hogos. That is exactly what you may learn from: get connected and enter with administrator priva-But not so well known sie tipteclocks. And



unaveied magnetic steip. This information is typ host, raintie, and seconds for later retrieval. tracky the employee card number, the hereefook cants, much like a debit or credit and machine. then stones this number along with the date. The reader then decades the simple Manchester

peade by gigast systems in Utah. Taley currently The tancelocks I are discussing are "FITC"

> assetly accessed via a 2400 base accident and the least expensive units available. It can be remake several models, including "Biometric." typically will have a dedicated land line. The one in Plate 1 is a needst "M100," one of

clocks. However, using a simple repaired goods the tunococolis. seripting program like ProChann, sugmed can provided Windows program to download the punches from the timeclocks every two weeks They should be the only ones who call the time: Normally payout departments will use the

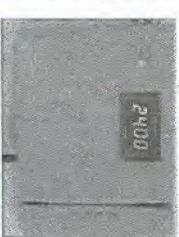
provided an agapter to your serial port. to the one marked "tel". For this the company these clauks is through direct "daisy chain" as wood is soldom changed. Another way to access the password. Tinter BTC (default). The pass-Photo 2) require 33.3333 and also NS4. Then, RS232C seeket in the form of £4 RJH jack next the functionies all come equipped with an the cleek number). Next you will be asked for tiatexteeks you will need to see your speed to when prompled, enter the asemance facilitations 250, Ger X51 on the \$1007. The IQ851 (see To enter into continuoidations anothe with the

of the punches. tittl you will gain supervisor access and you mode is 22222. This will allow you to read all or "user" made. The deliant passwood for user press the areas key you can gate "supervisor" can change the time, or even clear the intensesy far rord numbers and punches. If you enter The 10500 also has a keypad. When you

> modern to leady, meaning it will because, And remady is to disconnect the power for 15 secafter many calls with tech sepport, the only secess the clock with a voice line will cause the time. Other versions don't seem to seffer this ands. This can cause a big headache for the company that is trying to teach their employees "Same Solution." Caren MICO bear version 3.41, just toping m

rem, typically a programmable CPU bkc a Zylog or latel 8551, with a simple modern and and they no doubt will use the same type of Syssonwillos "Kaland". from some there are other units on the market

those companies all like to use simple pass codes. like their compagy name, store number. the notice? Only time will tell ere. How long will it take before real security is As a note it never ceases to amove the that



# by Grandmaster Plague

when speoring can be best used. intend to cloody this belief and give examples of the latement is to "Speed" your difeatchess, I fully the might is perpetuated that the success way to not get caught at scharever it is you're doing on To many 1931 b4x0rs and aspining backers.

### What Is It?

ear from what it roally is. The purpose of this is dress of your traching is reade to appear defen-"Speaking" is a process by which the IP ad-

specified it to 199,199,199,199, then your IP adif your real III is 138.13.235.182 and you the internet will know when their true IP address is: field of each outgoing packer, that notarly on address time maybe the source MAC address) Sparofer" program which modifies the source IP others) think that if they get a magical "IP dress would be anknown. Many newbies (and remote machine's lags. Thus your real IP adthose would show up as 199.199.199.199 in the so as to hide your true point of origin. Example:

### TCP Specific

ceived by machine B. As you can see, all compacket must pass this little test in order to be remunication on the fractact gets turned into a sny you're machine A?" Machine A then re-A," machine B responds, "I'm machine B. you communication. Machine A says, "I'm machine sume machine A and machine B are starting a two-way smoot spends "Yes machine B. I'm machine A." A tion a two-way street. Here's how it weeks: As-This is called the "TCP drac-way handshake." formation is going to and from the right place Now the reason that this is a problem is that the responsibility of higher level protocols. A to point B. What happens when it gots there is use TCPAP. TCPAP gets information from point level postecol (such as BTTP, FTP, etc.) raise your machine must speak TCP/IP TCP/IP is the etc.) on the Internet, thick again. The problem is Basically, it makes every Internet communica-TCP has a built in "feature" that makes sure ining for the "une-way" postneods (like rexecfoundation for the internet, thus, every higher that if you want to be connected to the Internet If you still think that you can use IP Speed-

## Two Solutions

There are two simple solutions to this. The first solution is a form of one way communications earlied "Blind Speeding." The theory behind blind speeding both down to timing. Essentially, a machine (let's cell it XYZ) fakes the TCP three-way handshake by saying. "I'm machine FOO." then waiting for a bit as non-chine B responds to the real machine FOO. then saying. "Yes machine B. I'm machine FOO." The real machine FOO." then saying are a well just ignore the peakers that machine B sends to it, thicking that methods the is in came. Machine B won't know that the peakers that machine B is in came. Machine B won't know that

what's going on because it's preciving responses from mechine POO (which are wally coming from mechine XYZ). So, machine XYZ has feeled mechine Bino thinking that it is really machine POO and it thus passes the time-way handshake. This can only work well in one-way settings, where it is not necessary that the client get any feedback from the server. An example of his is SMTP. You could blindly spoof your IP address to an SMTP server (to make it think that you're an internal IP), and thus get your mail message sent to someone else with a different originating IP.

protocol. Canondy, I am net aware of any tools this to work, you must either be on the same plicated generals and changes from protocol to mation to pass through your machine. You then hubbed subter as machine FOOt or you can do back to the specified host. Using the example is called "Active Specifing." Active speeling that automate this process. for the entire tession. This is an extremely earnwatch what machine it sends to machine 1900 some route table modification to get the infive shove, you are also sniffing the packets going time you are spiffing communications going tricky. It is the best way to speof when you want from machine B to assetting FOO. In order for bails down to blind speofing, but as the sence information back from the server. This solution The second solution to this is a little bit

### Conclusion

all about speating). available from Syngress Books (Chapter 11 is specifig, read Mark Prophily Your Network available on http://kalug.lug.neukoding/neutracks, it does have its interesting uses (sending tools/adex.html. For none information on fake mail, rever, and more), but is extremely It isn't the be all to end all of covering your temately, you can use spend (a spending library) up your own spoeder you can use rawsocks. Alare more useful than others. If you want to hack There are leads of IP specifies out there. Some teellise timungii sanse wingstes (or something) cover your tracks, it's better to reate all year back from the target bast. If you really want to difficult to implement if you want information Spaceting isn't really all at's pracked up to be.

Mi Mary (Mary)

# thaujing with Owest DSE

#### by phobik

I was at a friend's bruse and he introduced mater an IP range that por my attention. Every address within 65-234.0 x that we reduced to give us the same "cbase" groupt. My sense of curiosity inmediately kicked in 50 what did I find? Read on.

As it totals out, the neutrix were manufactured by Cacou and are a part of Qweet's DSL network. Each router is placed in a customer's home and quite candeastly configured to facilitype of service. These maters have three basic access levels; exact enable, and debug. When you initially log on to the mater, it asks for a password. On 80 percent of these things, there isn't one. So just hit easy and you're into exact made.

So what can we access consitives with from term? Resides tracerouse and ping utilities, there is a rebote command, and a couple of commands for pering info on the touter's configuration. Typing either of those ("state" or "show") gives you a list of arguments to appead with definitions. Fretty simple, eth?

disable it using "set systeg disabled". I register to a second a router with disabeture challed her you do is being stegged to a remote system, loss systop is active ("show systop"). If it is, everything before you make say modulactions have is if the NVRAM, you must reboot the Joster to activate router's NVRAM. After the file is written to the configuration file, and "write" writes the file to the Briefly, "set" allows you to change the restor's ing "enable". Again, Quest is low and has any changes. One thing you may want to check on grands, we now have access to "set" and "write". of these routers. Besides all the exec level contion into we can move up an access level by synexplosted to set up passwords on the rest majority Secretifications on Once we get fixed checking out the configura-

One increasing ability that you now have its that you can charge the mater's problements in table. This is done impain the following community with interface want rate [apotown] [new parts].

In place of the first set of backets, you choose to change dither the upstream or downstream to whetever value yet culticate in place of the second set of backets. The band sets will autematically adjust to match your satings. You may also want to play with the mater's transmitting power with the nutter's transmitting power with the intention transmer" or "set interface want repower".

rive until you assemble write protonand and policyon. ing fille is stored as esolgeolge last remember that ing. 2.1.20 was the most current version. The conbackup coming the can be downloaded, changed any modifications you make will not become acwhere w.x.x is the version number. As of this writis either named of 76.x.x.x.inca or of 76.x.x.x I've plocady doze the research. The software image latow the exact fiberance of the life. Lucky for you, "IFTI'll there are not directory services, so you must THTP elsent. For those of you unfamiliar with liftp enabled") and then you can compact using a you need to do is make sore "IPTP" is enabled c"bet and ephanded again using the THTP protocol. All I would like to point out. The seriware image and makes it easy to figure out), there is one more thing of the specific commands (the routers' subware While I won't go into much detail about many

Lawly. I'll point out the debug mode, it has all kinds of nifty comments for testing the Qwest network. I'm not going to go into detail about any of it because if you are knowledgeable chough to have a clue what you're foing in front you don't need any of my help. I'm sure there's some colors taining utings hidden in these, frough.

This is travered if There for each door to improbleme blood of the company about this problem way back when the routers species still 1950est property and nothing was dyno about it. So maybe this will get them to wake up A good resource for bearing more shout these things is no Clean wetsite. Just search for either "CROS" or "Clean (4% mater") Good took!



### http://www.kryptocrew.de/snakebyte/ Smarkets/tookleryptoonesseder THE WHAT CENTS

tols which can be chared to get to the weated goal. I will present some perliseness dot's here and try to discuss posgildag him oder závadagos. Tijís satíski is odi ahodi TCP/IP or otka towar protoceta, bat dsats višti higher perorem widthout budge descried. In will, side letter an introder several other possibilities to fight a rand with a forwall. でいたのでは、日本のはなりの This practe will present seems blood which will make it possible to profess a paraceation an IDS protected seems.

be secocleding like the rip brance start, which uses an tip server to get the weathed information. ing naw 12 packets. Tike on perio Windows systems of Unix ageories without basing took privileges. So it stream reveal my real IP. It should work no every system easily, so it can also be real and without the possibility of treat Log into this when I thought of a possible way to perform a TCP full control search about without having to

connection: Connection reintext." we know that the part is closed. The 150 and 256 copies tell as that we just brief consorted to expendent To parketin such a consorted execute at an ideal of www.insection.org/htmlp) with the Ampiora. FORT command, and own initializing the cause's fity daing a list or get exposit. If we got a 1425 Carri build date the server to discount region. That to the fact djut it is possible to come as to every past with this, you can check if a pour is open by analyzing the repig we get from the Ap. The soon works by first seeing the JP gost port with the But providings most fig servers will not allow such a scan. They check if the past on the other side is easily an The fig protocol allows us to comes no an rig server and make it connect to our twin computer, so you force

tronaron while scenning, which is relian useful in getting information about the running documens and that create ing client and if not they reply with the same error message they give when the pod is about. So other methods This way of participations a host has another big desidentage. If ones not allow the stacker to get batter in

ing took which announcedly exploit dream to white ion on this, the TCP full country protocol gate detected by every

of eachs provide are fixely available for everybody and get used either to TRC war alones and other things. ing an IP when you are connecting from a local straight fork to another petition witights context controls stellie. A let So the hear sites I god into tray usted was to use a proce. Using powers in a very common method of the squared

the earged head. If it reprises on error, we know that this is a closed port. If we receive an established connection we have an open poin and can retrieve the hereen. So I quickly where a ped script which jest connects to a socks 4 or 5 server and tress to make a contraction to

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Page 28

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37-17

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The only problem when using http provides the perticutanting is then they exceedly dust teather connections to every point, but only to part 8D and years pointed than 1004. The best fix for this problem would be to add a check in the birg proxy, which other has the really a counted, to a web serious.

As we have a perfect if a teacher has a fix of problems.

As we can see, a potential actacles has a for of different ways to excise information about open personal remining services white going tradestand because of the distributed sear. And, in addition to this, he also has a chance to hypore the well settings on the power senents as well as on other senters by chancing the proxy in an IP range that is allowed to pass.

What can be done to proteon the above of this? All three-prove proteonly base emption to just to those per the connect and verify themselves with a lagon and password. But those kinds of security settings are not confidentiated.

Intrasion Detection Systems should be reconfigured to that they then't rely on souns coming from a single IR but on the connection attempts to closed parts per their terms epinion, distributed point soons will become more and more smoother, so the IDS about the objected to detect such scans.

All bests presented here east of course be improved a tot, Things like sourcing with multiple streads will speed up the scare. Choose larget peris at random to prevent a simple fix of IDS systems and may be choose the proxy servers at random too, just to be since

### People Power

typinny and spending our money elsewhere. self - by simply taking a wand against this kind of of Corporate Menerica, As the optionner, we have the consulted in order to change the periods and agreeds. to the deduction case a position of authority as a delys' faces so that they can further burses 2600. It is up IPVI's are increasing the MPAA's budget for afterthey soon decline as infee companies case the fact that person who cleans the CEO's widet to the CBO littlepower to fire everyone in an argunization - loten the the constituet. Obviously, thesis of us who prochaec they simply country control the comments. We are all the issue of corporate control over the speech

cheap enemaioment, a lat of positive changes will be not buying into their bullshit at the checken stand. of us as individuals usualled low them out internally by so learnthing a defense against the MPA-6 on court, all coductions it air and profit. pealisps for this and masic industries with regula a made. If we rely less on entertainment to positly as, When people are willing to cod focir infatuation with Wise A beside is look won without nighting. In addition Leglis the parament of Sanifixa, author of literam of

some is brilliand ment to the weathy causes you separat. Your earge E'd also like to say "theek you" for your commit-

colored policies feet. will indeed show an immediate offset and will imprise publicin as we can come an with. This kind of thing deuts dem der hann überweick schadonfact anze as hand dend pine perindul impression of nor working. Greater socther's greened emaily the constrainment habitity if may principles continued the other selfs seemed by days for selfs with reumic hopeans are gener but with the plethore of These are many frants to fight this builds. East 20mmin

# The Mass Culture W

Dear 2000

tive who gets a hardest to transfer acrossy out of a stash all backers of the world should be perdown like that tive outfor I possionally see it as an insult to this what hockers as "plack hats?" Not all of us have a destrucfand. Why is it that Bleifywood always associates all The new movie Sweedick is about a CfA opera-

te der mederden, doch hag bise the my hebige dear is more and they need to be benefited inhowner potential. never less about accuracy. There are tool will on excepsnerwised ferminists. It is easy and it with. They coaled it iousy monier with the same hand plus desires and They she it for the waver restrict they make so many psycho-magnis

> minstege and as "that hat" or "cracker." CHARLES OF MACAGINETICS AND STREET perpetante a sterenigar dan ada basafis ribas with and those you was start of alpeaning bean asset for dig, and those who benefit by lapping inchers an exit hade up his old amountainment industry, the must me-

Tear 2600:

hypercites. I family believe they have no source who would you obsess and why?" What a bunch of back juto the provise files of anybody in the world. a question. The greation is "If you could compute a contest to win a bunch of theochandisc by suswering our lawsus happy friends Wiston Brothou) is bisoop line and found that the new mostic Sheedfon (utage by I was wantering through the world of the view on-

Sparenmoke; 6945

14 TO SO 10341 abound to our distanced - and play for other filterand wary of such place for assistance on they therally halping such involves analysis our newsoustie. Be model he sense one who was part of the harder sorne ours build accessib in the fast place. A hypocola ben en projesseel de storet fan angebing ocher allan alleen Odd social successful files and social states and

Scames

Pear 2600;

fuscinated by the article on page 42 about the collina side od char flodi fillt sowick kory interestrag. business guides. I would like to see a capy of the back Thorse madiag the giving estrion of 2606. I was

men. Extrapor extra activity yet yoor seven steps by kirtiphy expectations of determine with Network Schoolings, who 中心を からから marginitaria. Mai la genera del testo tiene personale del THE CHARLY DON'THE WAS PROPERTIES AND ASSESSED. indentary from the scap priority in question since we We printed the new interesting port of this tittle

# M. 3.3.0 Politics 18 5 5 6 6 6 8 8

Dear 2600:

I. whose enterway princed in 18.1 is consected from men recent wrest to speck by most. However, his it as an endocument of the Noder's allower compaign. Miss Pary (17). political purty for the backer resourcing is The Liber. Actually, a enjoyed an illustrated of a heavy young When I link saw the cover in 17:3, I did not view

sensible childraps and an end to a world where politic and our nation's war on drugs, both believe to treebasic philosophies. For exemple, both period wast to dominf expression, an ord to lateral specifing, a cross Greens and Liberturians chorish away of the same

> and a ration prospering due to an absence of the figure that of government. The Grocus, however, rules and regulations run negatively impact the liberhave shown their commitment to more complicated protects like liberty, and property of the individuals espression. The LP is demonsted to a government than government that governs bear governs least. It has alclear. The Libertarian Pany has always hold that the after we closely examine both parties. By without is giockl significantly help the tooking expansionly. But ways believed in 100 percent freedom of speech and On the sortiser, it would appear that both parties

giyas and corpositions rely upon each other to exist.

DOM - BOST RECK ASSAULT.

proper place with regards to incomestic empotes regulaeriginal Party believes that the government has a But it sees fit. It is because of this light that the Labgan, or otherwise) to direct peoples' toles on the way We simply cannot bust posteropean (Gross), Liberturries and freedoms of tech typicesses and individuals

Described Section Our so credit the party system is the stage bigger direction concerns to accept the house and publication democratic societies and offers the liver charge for inment qui sume yout, which is dominavaplison rémagione best getem would probably be a coalition governtorbide problems contracted in their playson. The area we have you so find a party without equally the dir kind of oversight icad a pood minu of oil. In fairthe sensing the constity of allegion any generalises. the no larger a paramoid familiar that compositions ziony wiśł ach responsibly, with thirk regulation. Siede are native in their assumption that massive regions écalify disposit inament government et passaut step for an edge of an expectal with our conferences. This is the net, we are party has managed to completely "get it." Dibertanian Photy makes some good points and but a the inside of less government interference with the There for it our community would disagree with Jonathan Feedericksen

Guns

C ISSUED eringest run amak. Fresdern af speech would be hand ability to exercise the ultimate was power on a govehave acti-plus wiews as well. However, willows the know that many people who are Intellipeople advection like of gen analogies related to the DOCSS flason. I In the 18:1 letters celular you expressed your dis-

people continue to support appropriate changle (gatethe Section , the study of the Hamiltonian of the Section Section of Allega as from median and the state of frontiers and the governbondes we've fightning, it arrans prosts domin obvious to money would any poor you if we do tided also now man she overal in our line side of oppositions that it is smithely that state and the government is on the other book at the medianis no area nome when all the people are the one while not ranker statistically before from the day to remote on aparity, it will considere to exist. But what This logic gaidhle breads down what confiamend

> ested to the physical of the respect to seem longs. the years the government issuances on the would tion of a justice meant, the government drough stand a and they have arone nectioned than been took as as it is energy. The second fact is that even in each a widely against one analyses makes five a going a common wave sincer than each the guest what up being used chance, tisdenier and source in pasting chings and would readinisation. On those rare instances where and South Affire through their people penels and abeliens even brought down in both the Unland Sources Mali came slower without a short being fixed, injuritional foreign sometic par senden'i stand a chares eigensch mayahin amendas of propsis are artired in their cyticis. they valid up, charge becomes pessible. The Berlin

history of manifold. Education and unity are for more approvation from the Heat proveited generalized in the than game and going to acceptable protect you again to began and delene, just the facilitations of individual ренеділі - салі Jac mare Jiessidg - невізглек. Рейй be im THE WAY ten bester afeite it heelige siehtigen negenstellente Keep in united that this isn't even takkening the

Dear 2600:

in the society. I want to shake before tigo any further at your evident divergers for the impostance of artis this function a gap out, easy blok, or NKA member. I page 51, and found myself more theory light disturbed agree with the views presented by 2600 for the suest I was just reading your response to Bob in 18:2

ment to pursue arms-and-innormation control. Read these in Catada, ago. You will recall, I hope, that registration and systemicians laws frighteningly bisbody was Hillor's Courtary, which instituted one and the same. The past visid example in recent chemicany the sente thereis. etc. Hitter was by no recails the only head of governhave an extended the neighborhood of the neighborhood with that has his possess those about those who would resist mans interested in arms control have been way often mans interested in information control and povernyour histories of oppressive regimes - almost all at Hitter also enoughed many "information systems" The difficulty is used throughout bashes, governprogram. various "informaci" programs.

and and in capession cably dedicated to the destination of fractions if you equipol logislation. They are twin symptoms of the ard, bowever, signing to attess that you should be just information go on so restrict the other very quickly books. Most government that surfurstricting zeros or chink I'm being andedesurative go back to the biscopy same poodem - a government that is partiags in oneas atament ar gun cocord logislation as information scens of importance regarding personal freedom. I I'm net toying to expert arms and information in

that stratefort then you are paneleing the freedom or your children that your speechment is releasable Journ the public of their situation, but executage the markasing costrol of their lines solution to exercise My perot. I guess, is this if you selected and in-

of the rate you are undling. If you are confident that rieusly consider y our position ou enex control in highr quantry. If you are not specific wover, I urge you to so genate have would first. I are to some about the results of a world base spending estional its missakes, move power to you, and to you you can have your government to ranguige and While I cayself, fixing in Canada, and sure that such a

country make the same mistakes we have. course, and are not vagor to see such a woodsaful years behind Canada's own unfortuned pelitical highly infernational publication, and look forward to handed sight of writing, but I see America only a few many years of reading it. Please targine my heavyill exactision. I thank you very much for your

desired over our plants in their constant is 1900 to the men rains? Canado idos compained de "setante" o and efections where the winner is the person with the Or an electronal symme that allows for real debases Homsdeve vignificantly less removeship in the weeks? distant tendri care system that both easier and marked the Pathed Surject in this regard stends? On a his diffusion side a 75 persons arbitrative (compared as

desired as that they are negligible for the emobeler of the population this war a given to actually wound of releasing factions has reacted that magent. In earling this year on each foreign does which has ache, adain new tien and agains sheb fallow The new of the bisserum prices were encouraged to there to specify the first the second sharp on the second and bure executed in the Sieuro for decades, his premay these have sear accessible from septimicities than being within boseph up all the noun 11st 1916 Georgia regiseramicroscopstian - the Mapi Geomory exemple, which is utions letters. Dut tit beginne make disperi over consider the wildrawed a namen of pear points in the pre-

#### Nor2600:

will got? I hope you have a good tanger. fix excellence, when kind of trial do you think you even get billy the courthouse. If the courts are wolst-Excused or held. The Sound Amendment to the Conany weapons. If any weapons are found, they are con-Whenever anyone goes to court, they make that pening 50% caratitutionel rights before you even ger into creational rights are being violated before you restrictions. To other words, your second Amendment the right to keep and bear areas, period. There are no stitution of the United States says that eithers have suct pass through a mass) desector in upder to desect In reference to 2600's areast (egal problems)

sásada be a har her crimatiya tapased sanas. had been analogue been say recovery because upon

As long at people bio you we demonstries trying to

The first thing societies do so control freedom is

being 2600 I adolfor't expect you to promote pur that different from its still the freedom to own a purfreedom. Por jost susprised you don't stappen (), what they have been doing to gun owners. Obviously, you'd be ouraged if the government did to backers consing four? Tay them? Rost/At Heir second? I think law theer to learn this information's Charge Exert and going to joil if I show successe? So we should hacking flockpicking etc. and pay the prior if I use than we defend I should have the threfren to learn about enetical. Seems to the shose should be the first rights distant their citizens and restrict their success to inforregister howers? Make them given a rest by line we si information to harm or stati Inter succeons. How is

William R. Epp

children world. Excellent of specials are the other PERSON. more californi, which is only our cappon have it so georgeni ibi yayı iskazı isk dikaber (c.) filgen per finincapiish recognised as includely. Whole your event most be imdeepen in possessibility that is surroundly unught offer and may resembly grown, this simply for horse is making the emineje dijekten Obergele. Wille American endare one of the interest title county we be interest to some own В оступнения поментення в нев се дне сением

#### Questions

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#### De 87 2690

またいとなる かんちょうかん

area't north? If you ask one, I think that 2600 Magacondition? And there such things as "good hookers?" De-1990 Magastes conspany succeeding Chaycota why do you guys call in time is the best, because I would to start a software And air these seach things as computer whitness who you goes focus on computer sections of the opposited What is the difference between a hacker and a Windows cheeser, I've got a couple of questions 2001 issue. The new trying that decoding thing on the I'm 12 years old and if w picked up your Spring

presale who are rises have reviewely seen lythreache decised pathently and as proposed) as necessary. The marriage were that does no consecut seven, they could easily be now for for all librar of charity distantions and when we take A themsely important that photones like these yet adjahar questiares, ner cresind our Josef markers ikke ist Where do we begin? Store about before accounting

CHANGE AND TO DESCRIPT AND REPORTED SECTION TO BE chiago white comparens for acceptable just on we derive horn prints of says of demoching people who do look has impaging in each and from the point is no fraudolendy till older people's cyrid: nowic? Then ing. Is the former democracy computer systems: Them die ess die visitied is weedelt. Is die artieg a dioespedies to are they of correcting when whiten about incidendescribe and factor as to what the property artisticity that commone of a "trimbo." measured that settle a chiran at some By dismissing the producer with during this is show it provented the "Charles" is simply a need contact by propie who Mark Town let's address steem questions air engine that anhady

> Address and the second states with the second process of the secon gleenrike ridoo'n wadoostaad oo ayy ay laak year yenisen a care bairned display on other addressed dona dipone visa i anti or of a cruaix agr. Ali guir porestrije interested to jaktom, awage, end jakting Segment to say, that if sic "Hankers" (so killion show selektrone inker a ferdez iz, de ziene gresten one coscept and by the belief that they equided postebly cause most people and so alreaded the site hery in because compacted about 1 seem to be suite more formation with others and to explain it to people med. They aim have a strong desire as share this in handers. When bookers do in jugare out technology and trackers his in providitions show one quite a few yould and to present short to result; a shorten - junction only the Asciens for extension few who fo six definition. This There we gove a ket of projets who call the mether intense emby guardifectation may be the desire to beam. then your serious question, if you believe their winds

threaders to possible. to de la minima del per a secol, de fact, mess campont ead as men as your "grow up." And you in man on been gyddir then their phorefyl felbour yan ahaange filig, aan that may have been. If you trail before in the backer which to distribute the field in the second state of the property of the second gystem pers inductival, personiauti tress it as you would and situation changes. His instance, if your computer Aguardáraí na rean such Jálaga diffeenday na Jase paces seeming and services beauting fit perchants with - taud appoint that i the returnants of comthe reserved the second annuages of the content on As for your other questions, harbors acred to ex-

である。ないのであるから exercise trademost here; specialists at the means one and equipments of the phone network. Which brings up greeping that preside with pilot buries souther seine lives By fee our name. 2009 heart was the trayer, fre-

#### Dear 2690:

if you would dedicate a gage to the newbie hocken. If have tips and townials for the newbie backer. you do eventually decide to do this. I think it should I am very new to hacking and would be very glad-

needs to be converted. He're open to suggestion as to the Boy way to tackle this. di riche ir an anziera amoune of musiquementon their list more disk a page in lough. Speediwas it seems as extred in for guide some time. But it would be a subside This is extendly a project with a second to got in

the theaters tile.. Subsequent to reflect the seventhink aroun writing reviews of backer moving new to from cover of 2600, Additionally, when do you guys rese the modified and? I was wordering if you now subcussions for the

saying about they need to book watering orientance to the Rendered back on the efficiency broad field. It goes without a title made troubledg than national juviding judging. employers a view manife south and between accommon views faction community, he file injuries, they are most air-Minima agent an both purphase and presumed that gree Seumer)

> what that you seed as a real life photograph - digital it. If you think you have something we goodd out, it is photos jest area i docejnatsiin. school a stady party fredunce photograph has movie

#### Dran Mage

it has a code on it that I don't known is shore a way to riows if you know how to delate or erace the DVD paper if longitured and Jikow you guys get a foliof credit, both was de-

analogic liberal and this and supposed wimpake wearing empirical mirred to primiting it resould not get experient in-depicts juneani eleks vente pa za Regeleks, uz in comreport to temporary and parentled prison time, we have to moveder when a described writide on defeating derivable server probably radiation year meeting to THE STATE OF MICHAEL WHITE A POWER detricing of the company involved. The scenario you Silver facting you have to differ region radios can

#### Dear 1899:

Signa optimized and ideas. think it's acceptable and shoold continue? I value water and pieces. Do you thank it's safety of do you was wondering what the magazine's thoughts even on The becautiong time teater of your magazine and

mose valy for the book printless. reading will be treated more like appropriate instead, So which the freeds the me in the incident fathers where just and articles with any appropriate growing the property of the states Hoose the east managed on much as the entire national solution day i timen tehen the nor and egation estation of opti genere avoiers styleonor promp a menessary etch. If the mestice a most powerful resource been facts soon erstely priced over the heads of consumers to order to eres if it doesn't model Mous times agforder it doub-Complish has a "no contro" policy on all softween more privacy descent service at personal. After all, in many cases the higgest applicant privates of all are the distributed for their chair get. This is not by pay that putdestrobute planta i aprovide ese identir a for antiga fem budhar, mga gan yang and ang ngahar gan a ang sambig lar program is a month-shift materials by default. His ening an idea to defeat the season varies a provider seglinane anamylisatoreus anni alteralizzana. Osmoles si This is in the means a simple three. Obviously, fig.

thes \$500 except it? How could one job 2003's Mes not a harden. I waste in write some essays bloom (1.50%) 2000 some persons who have high extension of com-Does 2600 need cracked Maybe I am a cracker

#### Xudin

The seeds planted by the many media band begins

#### Dear 2000)

note for my awar website ghour the economy and backatelity of a garmatian feature of Microsco Office XIII Ar present, Lam writing a somewhat serticies) (c-

Suyy 2001

interested to this integration. (Sinan Tigo). Inhink the readers of 2500 may also be

on my own site? Do I forfeit my rights I have to the article in the magazine? Please adviso. and it gets printed, do I still have the right to display it this respect? If I submit the article to your magazine How does executing of my article acts weak in

ur abat bene stready twen poétisbeel, citéer in another cias ar en a nab paga, misioso laring an Esant. word white it. We only ask that you not submit things to You retaile of rights and you all whatever you

magazine with the title Yith (eX Treme INtelligence) This kind of periodical has not ever published in I am foot Kley, Worden A group of young por-ple, including myself, are trying to found a backer Distriction of the

to make a first issue zène. We are looking for some good authors and trying considerably flightfor article writing of such a school level, hard we need exactly this for a profitable magatheir massely, our protessional knowledge is not

sign from you to translate some articles from 2660 for Party and the second dur future públicacions. Pro tala casa a catacura se i would like to ask if it is passible to get permit-

denimies by accessible. We sain to obtain the Ubrabian people, informa-

## Alexander

ment of their bone of their electrons as their in order to provided, provident alson conden to garde. But you will No transport of the second sec This second little a moved winds and an extreme as and

exist in Lithurgh. See you in incinet he 6567: \$2600. but we can't read your magazine became it doesn't I am from Lithuania and we like 2600 years much REG

S there's included, like a share that makes you can't

# plant ) see and play, Arial ways, we're brown to halp.

in Read If Sementher, we are not a company and purword is to get information to Setzified people (who in our courtry? One we make some deal to publish it sible for us to manshae part of your orbides and use it I'm foon Brazië. I would like to know if it is pos-

with their own names a said styles, which we disc happy la deservações resunación no apera plicar pera serigara cinas name sere of backer Stanburks, we'd profer for people and maratimal of 2009 appears throughout the world like guren and her get a copy. But suffer then have slifter からまだのの lated and published in other disea, as long or modifie depoint we have no problem ferring actions wants Reinalda

#### Thear 2660:

they. I readly went to subscribe to 2000, but I got

some questions. Is there really only four banes per L'in genera get eight issues? Just asking. year? L'au probably gonna sebsoribe for two years, so

Inches

Tourness on outer

when my computer had a crush and now I do not ic. Can you help? know the correct name and how to subscribe again to could read all kind of questions and answers. I lost it Had a 2006 see sgroup in no conguter where I

#### argic1606

group of 2000 which should be easy to subscale to tion a syle entire services and in your computer. freed and comparies with a news secretar. We design you You've professing racking observables the Garage season

finding #2600 on IRC? Please would you like one know how I go phone

our server or being blocker. While it's operated by 2000, we have no consequences what in sold on that 2600 akeunei aharis una bysas, yaz unad na casunat na servers of IRC. Buriffyra waar to go to eite "official" channel or worse, which is the map MC should be There are many \$2000 channels on the different

#### Concerns

#### The sar 26000:

Control Education your service. Many a niver day lettaking If audiess suggesting your website, and what creates Personally, furnish the Pattor CIA is reading what

3000E to more about the can call on you to replace the It's good to know that first over the aut of things

#### Desir 2600;

to band out the death scattered in matters like this had paverated their system and they want to the lines indusion). They coar sair figured our that someone word had not been changed in 344 days zerthe nine of sem to see if they were up to pur (their admin pass. menths ago and menugoment had dwided net to in-form the county about anything well had done. We of their system also. At the state rinte my boss soiland I was told by any base to check the security of the high. As you have stated before, presceptors are dago police fallight was put in the paper from the police anything and would make a lot of make on their syshad also taken the approach that we would not hide was very casy to access their systems. That was three NT so yers that were municipally Nat Bros creek IP sock it fied management of our intertions. They have several into the openity I was instructed to check the security that and such. We also have a consection that lies us SMNP running on it. So I observed up a few things like network. Well, starting cell my prodecessor had disabled all of the possess rules on the finewall and bad I am the network admin for a local government

> overhere. My question new is, shoold the service? gains tell the coupty). The county new is considering even the oily engaged is he was the one who decided garating criticital or civil charges (gener someone Many goods at the city had knowledge of the event

### Nor Admin

adver people about de montes pac-दार्कान नकेंद्र क्षेत्रपाकामाध्या अनुमानकेंद्र स्वाप्त के मनेक्षेत्र किए क्षे barrels of facilities moreous from the sessed of it. It sour the year should be worried. You've working for a

imate use for any of these deserves are my publishing effort to even any possible uspyright infollyconor if other than to copy and distribute copy intent which companies. Individuels have no prochest use for freen protected works. The early people who have any legitmeans of thepsily repuditions and distributing my not be distributed to the public as they all process processors, representants, princing presents and posetts housely ask that photocopy machines, seathers, word right laws protecting my works being broken, to on win new section legics are increasing the risk of popy-I'm a writer and I've become concentration can

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#### Dear Local

every upon sidni yor is invented annufactors their Social Se-SS autober whenever they cash a check or hearingstthe office so most people walk around flashing their driver's license number, you are not advised of this at different (perings rendonally gottomody) one as your cial Security number of yout figures and substitute a earthy number! While you ago clear to keep your So I jest gjet tylek from Afransas and i get this -

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broad is and how great the computer company than spend the entire semicitar learning what a mytherthan you take the computer report course where you says. "Why don't you take our C++ oranse?" or resists ing anything other than what you on. Your counseloc sort of thing." you can't up not being obte to stand do help someone with Windows because you like that stantly pulled away town what you're doing to go and before. After you go through high school being our thing you'd like," I bear that all the time. It's a real Finds the Source is "Why that't you go miss with computers? Sense-

commons, whereing the night shift at a gas station, and enjoying a game a bit, it is a cake job - they provide that I'm washing my life. That I should go out and get Does semight and manage by of people test and right Exink about whatever I want. Still, I hear from the compaters at leaster. Universal time since in the woold to to work on whatever theory. For and ling over with my is simple. I have a for of freedom intellectually. I get much pay the to go there and read my books. My allo stoald program what people were progentimed, resome son, at digace in computers and field a job. I Now I'm out of high school and listing with some

> system ratios than have my own perspective of the gardiess of whether it's creative or not I should poste money and to date Thank should force myself into the

enough to further the technology and branch off into to mindlessly with functions. These who are small this. Why is it that something than's functional, take Supposition you say under post-coard are reasonable Those who are capable of writing pregnant are bired computers, tecauses neching users then its function? I just during understand the mentality that goes into

### More Info

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large can implicational analysis of the above and the control of t selveck with constructe understand. Den't expect for plant of the party sector semiciding above except of the in-the

But those who which to their lessels wind up with a

Doc Kennedy

#### Tear 2009:

caught on The moses is that Connecticut has strict 2000 PAY 1008 jast sependarkeis. But the less exempts any reteiler all adeilers who seen CPC codes or the register, not grice lag on every infinithal item. The law applies to item priority less than her receiters who full to put a the only state who we excremit shelf labels have nearly that Theilbleack lives in Consections, because that's tomic Shelf Libers" article from 18th. My goods is Adjusted that to Trait blazer's "Secretary in Edge-

THIRD.

charge a different price that the one the nam is tagged ing stock boys to go but and tag each item individu greater control over priority and seves the open of payheppens with the ESLs, ESLs also give the retailer PED'S DORTING Home Deput got hit for \$250,000 for virtaring Michiwith To illustrate how possisting those book can be anyway herene the less penaltre relaters when who use DSEs. Some requires in those stores use them the books, but do not grant an examplical to reciders Michigan and Messechosons have similar laws on izwy in 1998. Pulcing disorapancy never

En position from the server. Just an idea, tions the rags are powered up, they request priority inegylsand. I don't know, but any theory is that entrotain their proces after their balactics are 80% at eut and giscom. As for the roystery behind why the ESILs re-\$1100,000 to notify an average supplies set with such a busine they're too expensive. It costs should But for the most purt relations evoid along HSLs

Hogh G. Section

#### Dear 2600:

New it brings up menus as IM\_Bose sold. What is inlast time you lied a furnished update, your box OS teresting about these endous je that they tell you the the panel says DIAC. then prossible desprend button mahaneausty SeidECT and the dechard trateat mind version. On the Pioneer yearsinaply hold and pross so Explains ASSA and the Piocean generic Time Warder givan us two different boxes, the Scientific Advantage ing build the cable campany for some cases had in 1800 about Time Warner and digital cable boxes. I was jutewastal in what BA\_Ruse bad mentioned

attopt anglicing if would have to know.

in. White in college I worked for Radio Shack. J was both industry and applators and well in L.A. tion but instead I booked a six figure possion in the round have found some was idialy, way to find reliabathen I tempediately Jeli below the quota I suggetse I customer exked are not be instude their inferentian. position at the Traidy retacker) to fall below 92 percent amount of phonocuumbers required for yidiiddidang a fined for effecting my phase namber percentage (the Since I only worked on the weekend, if more than one After reading Jell's Juden in 1802, I lied to chiese

at the managest typically just throw them out experience through the four stores that I had worked ing As time gass by these printouts become cardivertransperitor which is typically filed away for safekoupgiven a printent which includes the activity for that for the evening. As part of the process, the manager is to point distriction when the store manager closes out each right. This is three via a diabap 56K USB point second service at the famile office to Texas at the end of todien inferigation on a daily basis and uploads is to a As a side outer Each Radio Stack collects des the supposed to be shredded. Sil High

log efter making a purchase at Radio Shack? imagine how valuable this user list would be so rehar ment since you have to either make a putchase to got a there is caralleg." We know that this is an unitate \$200by customax as as why we ask for this we ware to vendors. Ever notice the artists of a Chalchifold care-The management always told as that when confronted "free" catalog or make a formal paquest, I east only Jose will there that it's collected so that we say soud The extremed data is used for a myriad of Heigh

seriously. The next time you go in to buy a exprense Needless to say, they take collecting this disc very

> pony that pays its employees \$4.25 an hour? per on these fellor to getter data. Out they will obtain add fake container info to year conspirit you deathro clerk's temperature rise. There is so much pressure what your favorite color is, telese ted watch the and are gridled for ten unimates on whose yes live see from employment). When the you expect from a counso that they can torne back to work the total day in practice that il refused to do and thus was released

homover for

but I was very pleased to find another possible way to way to expects the Seer "habber," but in some recent negoth, senden don't know if sayone has expressed disclose belond edgeable with technology and computers in penetal that a digeratus year a person who was very knowle up the earn in a distingury. I gathered the impression reading, a new wood caught any cycl digeral. Looking I've pover had great luck rinders more than one

BUILDING TO

#### Dear 2600

pus writes a ton of staff all over the placety correct 18.2, and I saw a latter from "Approximates" (map then ing a previous article attent gering off a talemun I was just string on the copper hipping through

emperioren the lews. the term "interviewer"] as well as time raises are an zines, etc. Triis mozas Cut "surveyers" (they prefer buy a pooduct, be it a new TV, vecation homes, magasolicitation nature, such as eads bying to get you to leady very specifically general towards early of a sales a fund-suisor. This is at lact row too. The laws are ac-"Informark room, wheether, it is a surveyor, salesperson, or He says that the the New Call role applies to a

son answering the phone siding). it anywhere that the calls go to fi.e., where is the perrelensarketer setting at a phone), other states consider where you have a physical presence (i.e., where is the gany is also only diawaly asspectable for ophesting cas'r lay down a blanket statement. The calling combased. This aspect varies from state to start, so you Do Not Call lists are excepting based and not offer This is prother toophole as states define "coolsoning the lows in the states in which they conduct to sinces The may also have been invened in saying that the differently. Some states consider it only

me on your do not call his please" as well as "hoy have loss of personal info about you sitting in front of into mouble because you pissed off a person who may est" will had suffice (ellbough the latter toay got yes fuckhead, doo't ever call me again or I will kill you that you do not want to be called ever egator. These on a "Do Nor Call" list. As long as you make it clear Tosse is no specific wording needed to be placed

means settoping is from lists, time. If it means solving is responsible for making sure the phone number in up a predictive dialer to bump the matching numbers question is never called again for any jobs. If that In the event of a company wide ban. the company

> more than one member, all bees are off. They can call again. Notice I specify phone number, If you have Tang as the place annabar in quastion is never called thick good too. Whatever method they want to use as goed to inform them for each number individually. gauth and energy oder of your moralities, and you work

egiomen of the two in the laws I have seen just time to call you on. Job-based benning is the more and from the one offer in question. Future offers are For jub-based duetning, they just need to remove

poor that they requested to not be called, and show BOOKED BOTTON etas, Juut again, ghask treed lewis. Not all states allow golation. It is up to the recipient of the calls to show offer posturation in the cange of \$200 \$500 per call in back, you might be able to collect lines. Many states go record a promiser as pick nor call. So if they call you and with this to read up on their state's tens. Many you to record a conversation without convent town all tion violates the law. Tape mounders work well for proof that they lie tiset were validating on a common relativarkeners dan't hother for don't have the power) It might behave anyone who is interested in deal

throughout the United States murketing, but techer has spear the last 2d some odd genra summer or even "uver a year" working in take istrative repeats of setting up and running call centers. years of my life dealing with the admissed and admis-Just seem throughts from seminors who have't

out to found now that they are no longer maintained at perackeons. You ear find the gotte organic or badugin, Any sofunteers? www.phrack.org. They are runeatly looking for a wo-In issue 18:2, Mike G. asks where the Phrack Sitts

Kijgne

When making purchases strongly in as a wroadsmirtly giving Radio Shack's corporate address as your own Lanadish Kollio Shapi cooporare address is: tranic response. For falley Canadian randots, the The perponent to Jeff's Jeffer in 1868, 1863 afteri

LAMANS Bertief, Orderio, Carinda 179 日間がたら日後の

Tel: 705/728 62:12

RnochRust

to the date of its publishing (July 16, 2001) to a very tion depleted masses, inside hest These come scrows. Although it may be a bit long for today's aboutechnical set who base no previous knowledge of the Bay to read meaner that is suitable for even the non-WK200117 (180010), ly dazada obi entire DeCSS spic 18:3. I would like to pass this link on to the reason-In sympothesic response to a letter form "get" in www.informationweek.com/bitsweet/istary/-

injustices

it's probably see late to get an organization of your lows for aqueduction made seed glicomistances, and whether this is just emecanion or whether the law at or the copyright bolder), generally, when a fertilated was copyrighted (i.e., no reproduction withput gapmission worked at a copy contentand whate stodio permits are dak image processor on a sudic-taken portrait: I've employees at Target not effecting you to use the Korharve doing the service as well, just as a good laith ofmay went to informathe eagus center of the ferenal purposes, her my adviser for those familing into this problem is the famore would be to lake it to a full-serisvalved, we looked the other way. I'm really not sure はなる works there was well sympathize and allow you your form Massiful the time, there will be surposed who view edgy confortable explain the dispensioners. You Tairegards to the lotter by "SoliCot" in 18th about

chromosome fortyseven

Fit piecky pathetic that people are accordly being subjected to that in the first place.

#### しる情報のでき

disparaments and having people say what they do, as Spirssellin ledt wateries. It loaded after 30 servents - they inter have Stealing cell place ID's and aredic cost frank, and the Secret Service. They were going through all twos on a 2400 or something. I just thought you'd find they showed a person at the office agreesing year an some public excess station there was a lighter on well as fremeing on some content issues. They got an All was Expecte through the channels on my TV and 喜

(myxhaw)

access, crimmer, in paint ment for more conservations proprietaria. our approximat to them. It is also immic that a "public Ascii scintiles when we be always been quite virtai be The traditional commence of the state of the

Dear 2600: randa American This is an exempt from the July 2001 usue of Sec-

have to be returned. boase at the time the above low was passed, and will signatural of 300 typosorooms was lying in the custom operator of the machine could be traced. A large conthe authorities was that in the executor statistics were typownikus auto the country. The coesan advanced by couldy shown by the prohibition of the importation of agout he impossible to obtain any effectly which the ings executed by the typerprilet busing disculated, is regions of the Heristh customs authorities was bethey 1961. The inexplicable construction and en-

at logged introducement we'ld find ourselves in a similar situation as the country of Turkey was 100 years ago's 'Digital Millorgonna Ass' or "Ancient Turkish Re-Who would have thought that after 100 years of

KION INCION

10 35 Prem If ever there was an itsue what fighting for this

Mindely is revealed when one exemines the actual terrors society (or lack thereof) which resulted from "The greatest injustice in the possociation of Kevin

bily your ever sall brutered returns. When one of you bold be sighting the trust and prency of all my clients. So, look yes! You're differents who only justion of my right to precess! If it were my besiness into my house to tree around, or back into my PC to 関ク broke the idea of he was only "curious" and curio by a drank delect you went there pull away. "Insent"? age on their nights. But when your links girl is killed has or or "stepped" a backed hearing negotial refinite peb "look around" that sareld be a logal and worst biola A doubt diseas doesn't "intend" to kill, and may

Working treatment ut more that me're on the right action terminaling in part unsoliditended ignormation राजार केर क्षेत्राच्या होते अस्तर जनात हो असी महिन्दाना असीहरू The god to many before like this and they tileared this

rehorated flavoild be afone and borad. Way bored. handorf issue). Anyway, I'm glod this exists because first foliations about 2600 in Discussor 2000 (0x) have extended the past two intolings in Dallas 1

pulsation wanted that marks." re papelification for the problem. So finderlyed the regauge contents in their department was office four lays customer and waited hate to see the system down bepositive me half one of them telling them from a daily after because good friends. About a recott and a half basic Well, flandeed that there was a solutily field ing. Thank you for your concears. Fleure stop starting passed and they fixed all but one hole. Naturally I any of the systems there. I field the attendant and even the would allow anyone to bowes the head drives on pily: "We are perfessionals. We know what we are do-I expectly went to the mail and used Cylonge's

to shot down a few remembers, do you think they would cope out and fix the problem?" He west's too sure Jelman work Jellong he was fixed and asked, "If I work Digned should the preads staring a security field. He got jug mass laulie and errors in the other 14 seminals (subjection for it any easy. I shall cown one terminal to all after two wasks of sending emails. I called to atkid) jourso happened to be the main terminal cates OK, I theught that sourced. So I had my not wifeend

> (not fee the cominate crashing). Cyberspo margod i mosetiane action will be taken. I was pigsed. vestigation, and if I am seen using only of the systems connect and open med by Big Fall Word. I am updo: in-Work approached me and asked if I was snann so add rector of itself security and one of the cures of the fair publish. Two works later, but eight, the assistant ofand like a food I pave my spat name and voicemail problems with the others,) Wall, its usked my same out that it was comingal #1 and thet explained the So find fried law Logs bod in if hads when I found lens reducing the system to put the new software in with Big Far World The each was having serious prob-Osper Oil, woll. Now, a few weeks after he was fined if I was the one wise coasted by their system when I one yes, they tool me I are bound from all knocks

does jit argued the fact that those are public detrainable the resiled (Rights was) I will suppose at a different and I used wy operant actifers gramma. the state of the form of the state of the st gail and was reminded of my restrictions. They but When should it to to get back my internet rights at

Lawrenille, TX Diababelidiet

the people in charge dun't feet like they're fering they will likely just habel you on the street equively menious and many and the one deliver the words amon dans even sking you can the liest explor on today to plan if sherr chases not to shown hings about it, ) on 'or your specific achievy is received by the project paoposition) in a similar silvertion in the father, make nonstreet so dien't held year bereit. If you should find served that any percentaged at one arrived source in the people's country part they wint the constitute of shore March of they access the sterior. and there's marking amount can do for them except themself Other fines they a just complete their Shoretungs these masters can be sprited quite easily their adjournal constraint freeholds must be a sectionally public marker. See to if they energone force out release get abone to fit minger. At most point it about 8 horizons a and the first the first of the section of the section of the then there. By the roughly everying client, from teach or mental and complete, analysis with single paint assessment expension The simple four is that these mentions being m

Thear 2000;

5000 x 000 might do seemshing if they shink it will help them in are no get inneversase attention by publicians (who revenue. It needs to be made an issue of policinal atreariest. The implications are far too familying for if The issue with ShapeShifter needs for more poss-

iponey back, the same leeps to percent as a "re-south." (Spagist was in the box), and when you demand your you a best of exist instant of say, a DVD player you ShapeShifter's sountion is like some store selling

Not to mention the fact that they also throw the

Dear 2690/

With to Barney & Noble a comple of days ago to

check if they had the larest 2606, and yes? I found the phoce van. Iso's that a Cheby ven? Coincidences ing. Equickly texts the errire one of 240% and flipped peoples shelf. Are they alsaid to efford people by disthe cover. Good job on the cover by the way - URBAC Sa, when the exporpresent sales dropes Wersel't look. Ripped over so that the title was absorbed by the geen over so that energone could extend again gaze on olygong something that says "The Backer Quarterly"? 1802 there. However, the ordine seeds of them was

a lightly designed production out there and receiving for the following tissues, don't assume that it was the stool receiving to the with either Ford on Cone out Minions. Are Districts they commit magazines apolice down is only one of the mapsions ndsa slagades jaufes e jana sera cienza se com sen. Timere mer The sometime charge which has no checked, had 10k 80k

Dear 26560

to ger a copy and you have to wait for the pursua in sue. I went to the Barnas' & Noble in Médicso, Calmaking things barder for the rest of us. I'm som that money. If you are starting the magazine, it's only copy. Codes no people, five deliers in not a lot of charge of the neighborines to be in to accountly pick up a nats and it also makes it difficult when you go in there reme. This is bod - it makes brokens took like on mitheir stokes and they don't par more than one out and had it in sinck and was hold that they have a lot of formin to get the new associ. I were so the nick soll it shout the problems I had lightly to get your later is you can always sit there and raws. without there. I were to the counter and asked in they but our find secretary to been you the therety. If that I just wanted to each year when and for you know

eaught from one of their means? Physicanism, there is right to charge them if someone steads a book we of their age. remusible remind have been multipleable only a couple a big chain is the only journe in lower like, chitary dumps ten. This is quite (spire) of a intel happines when jednjege glicky i stepat om inder de sande filosof filosof all de g no way to locale publishers that some charges on phick this responsibility onto us - do no some hoof the ing where published have at pay 30 process of all to then that are transcounted for this nation whateir is In party in state, Missauch in Mobile bas increased a poli-

service. The company that may this little service can ats, reportion, PIs, and such life elya he reached at 800-806-8722. They are solling this eads is just for tracking where you brand about their work as of this writing (\$1907 origin he finery). The estent for your five digit onde, any five digits will solvide as a means to get phone numbers for skip from Found a new ANAC widay, 888-221-0101, When

> a realist a sometime and of in the Thirty and Author than Ingeligen to Enough hit follows statutos ao describir no joud nos receir com prisono ellera fina serance of the nations photos companies for than hancon't adventily. But one has to a sender with it has been We doubt they will reduced accept sever if they

Dear 2690:

suce why this is public; www.injuses.gov.ofabeh negárnázolásátartásanyarráspaps fetra. Fint mor really codected/citie/process apalication in This is an interesting tink: waw.hq.rawa.accepts

As y linternal priorie disensatios should be a vettern

Appreciation

Dear 2690:

by. Please, you only make thangs woose which causes particing but couble for the whole even-Leans have with your ideas of heared towards authority. move to equilibri country but Jupit testitionals the ing pool for the world? If you don't like America. You nely feel the streety rebellious first within them ountly. However, on years really behave you're do ing the youth of America to lose modale for this great I think it's great what you guys are duing a caus-

John GS4429

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Orar 2600:

The a long time reader of your zing. Anythow, just

lifts if read over the past years. wroted to express my throughts to all of ) on for keep Josef-Trimpert

Reportment of Justice Civil Division

son's contact, to the UGL it aemally filiping human benefers, maintainsty managed to back into this perbeings. He is widing to estended our of above power Fisher sources in really good of foreign and! Commercial Litigation Branch Frand Section

Dear 2000:

and on the men band, solved and other below tional exists section of 18th and saw the bond Sentinbonds music! Visit your food indic record shop grosse, because that's the best way to line real, good, cause of its bonesty, which is also why I enjoy 2000 indic music. The abways liked Barboe's music bedelt. The teen a fan of Sentridelt, it so known as Lou pocks besides proced who also like 4-track acaustic Barlow, Kin many years. Firethy, seems computer I'd suggest to other readers of 7600 to chaok and 80n-I was quite surprised when I read you displie-

Akadade

Desir 2000;

ran to 19/17th Mode. You have a great show. Such I I visited New York lest work and lineary got to be-

Continued on pega es

# Compromising

# Appliance

by Mex haphiniti

With today's technology and today's conmercialism the Internet has become larger than any other of mankind's creations. And everyone wants to see on it. People are rushing out to buy computed for the sole purpose of "getting on the real" With this bursting of wired tochnology and international networking, common everyday devices are now being made with interfaces to work through the Internet. With these new implementations comes the intertable security risks that come with every system on the net.

For example, there are several exercise devices that can be connected to the Internet, thus allowing the aser to have a virtual trainer online guiding them and controlling their device. There are assumeted workeaut that people can through this company's website, www.ifit.com.

Web servers have been known to have capitots, allowing alfackers to gain access to the system and pennitting them to change any file on the server, including the graphics files that are used to control the exercise equipment during automated worknots. If an attacker was to alter these worknots to force the number to keep up a pace of 15 mght at a 20 powers factine, floorance of 50 year olds across the material would either have a heart stock or full off the speeding treadmill and hart themselves.

Another fire example of a device that could be compounised is that of i-ready sexual devices. One such company, at www.salesex-plas.compages/SSP\_Convertechtral sells a device that attaches to your mention. The best reads two perallel bexes that range from black to white. The intensity of whiteness controls the intensity of the vibrationaution atc. All the attacker would have to do is replace the adjustable java applet with an animated giff that alternates the expresses thack and white) which

cause the doconsider between
d high speed
anostible bump

would cause the dovices to watch hetween off and high speed quickly, possibly bunning out the device, but

definitely atmosting or hamiling the user.

A final exemple is the total laternat appliances cream to reside in the kitchen of the house, all-leaving the user to distent to streaming fausie, browns sites (pecusing a recipe or two), watch DVDs, and mention other appliances in the kitchen. The last option is the meat velocrable. At this time I believe it can only rewriter the devices, but if an attacker broke into the appliance, they could possible modify the selevane that monitors and calibrate it incorrectly, thus causing the turkey that is supposed to be finished cooking in one hour to remain in the oven for those hours before the user is alerted than it is defined. Of course, fries/ness could ensue also,

These are just several of the existing devices that today could be exploited. In the next couple of years you can expect to see more and more of these "Internet nearly" appliances appearing to people's former. Manefacturers of these appliances will face a whole new horror as executives bring up lawsuits for loss of life, limb, or property due to a dovice being compromised.

Green to Kommenski, Lord Mantrics, Fatal\_Error, Block, Hyberboy, Klyrical, The Tennis Touries, and Haretic.



# \n Introduct to ARP spo

by Sean Whalen arpspoof@gmx.net

This satisfy deals with the subject of ARP speofing. ARP speofing is a method of explositing the interaction of IP and Ethernet protocols. It is only applicable to Ethernet perworks nursing IP.

Anyone with basic actworking experience can understand key points of the subject. Knowledge of the ECPVIII reference model is visual to full understanding, as is a familiarity with the operation of switched and non-switched networks. Some background with the presented in the "Introduction" section, but experienced readers may wish to pkip to "Operation".

## Introduction

A computer connected to an IP/lithernet LAN has two addresses. One is the address of the network card, called the MAC address. The MAC, in theory, is a globally unique and unchangeable address which is stored on the necessary so that the Ethernet protocol can send data back and forth, independent of whatever application protocols are used on top of it. Ethernet builds "fraction" of data, postsisting of 1500 byte Miscks, Each France has an Ethernet header, containing the MAC address of the source and the destination computer.

The second address is the III address. IP is a protocol used by applications, independent of whatever network technology operates underneath it. Each computer on a notwork must have a unique IP address to communicate. IP addresses are virtual and are assigned via software.

IP and Ethernet raust work together. IP conrequirests by constructing "packets" which are similar to frames, but have a different structure. These packets cannot be delivered without the data link layer. In our case they are delivered by Ethernet, which splits the packets into frames, adds an Ethernet header for delivery, and sends them down the cable to the switch. The switch then decides which part to send the frame to, by comparing the destination address of the frame to an internal table which maps part numbers to

MAC addresses

When an Etherner frame is constricted, it troust be built from an IP packet. However, at the time of construction, Ethernet has as idea what the MAC address of the destination machine is, which it needs to preste an Ethernet beader. The only information it has available is the destination IP from the packet's header. There must be a way for the Ethernet pectucol to find the MAC address of the destination trachine, given a destination is

This is where ARP, the Address Resolution Protectol, contestio.

## Operation

ARP operates by sending out "ARP request" packets. An ARP request safe the question, "Is your IP address x.e.x.v.? If on send your MAC back to are." These packets are breadcast to all computers on the LAN, even on a switched nativeals. Each computer examines the ARP request, checks if it is currently assigned the specified IP, and sends an ARP reply containing its MAC address.

To minimize the number of ARP requests being broadcast, operating systems keep a cache of ARP replies. When a computer receives an ARP repty, it will update its ARP cache with the new IPMAC association. As ARP is a stateless protocol, most operating systems will update their cache if a reply is received, regulabless of whether they have sent out an actual request.

ARP spoofing involves constructing larged ARP regities. By sending farged ARP regities, a target computer could be convinced to send frames destined for computer A to instead go to computer B. When done properly, computer A will have no idea that this redirection task place. The process of updating a target computer's ARP cache with a farged entry is referred to as "paisurating."

#### Attacks Sniffing:

Switches, determine which frames go to solich ports by comparing the destination MAC on a frame against a table. This table contains a list of ports and the attached MAC address. The

Network cards can enter a state called "people means mode" where they are allowed to examine frames that are destined for MAC addresses other than their ewn. On switched networks this is not a concern, because the switch mates frames based on the table described above. This previous suiffing of other people's frames, thosever, using ARP specifing, there are secreal ways that suiffing can be perfected on switched network.

A "man-in-tho-piddle" stack is one of those. When a MiM is performed, a malicious user inserts his compact between the commutationists path of two larget evolutions commutations be performed. The malicious computer will forward frames between the two largest computers so extenditions are not interrupted. The attack as performed as inflows (where X is the stackling computer, and TI and TI are suggests):

X prisons the ARP ceahe of T1 and 12.
IT associates T2's IP with X's MAC.

12 associates TT's IP with X's MAC.
All of L1 and T2's IP maltic will than go to X.
first, instead of directly to each other.

This is externely potent when we consider that not only can computers be poisoned, but concreignteeness well. All Internet traffic for a hast could be intercepted with this matted by perfecting a MiM on a target computer and the LAN's matter.

Another method of striffing on a switched actwork is MAC flooding. By sending spoofed ARP repties to a switch as an extremely rapid rate, the switch's post-MAC table will overflow. Results vary by beand, but some switches will revert to broadcast mode as this point. Stiffing can then be performed.

## · Broadcosting:

France can be boundess to the entire network by setting the destination address to FEFFEFEFEFE, also known as the havelcast MAC. By sweeping a network with specified ARP replies which set the MAC of the acrosoft gateway to the proadcast address, all external bound data will be broadcast, chabling suiffulg.

If a host were to listen for ARP requests and yearaste a reply containing the broadens addoss, potentially origining amounts of data available troudenst on large nativersis.

Password collection

#### DoS:

Updating ARP caches with mon-existent MAC addresses will cause frames to be improed. These could be sent out in a Sweeping fashion to all clients on the activación coder to cause a Denial of Service attack. This is also a side effect of post-MiM attacks, since targoted computers will continue to send frames to the attacker's MAC address even after they remove themselves from the communication path. To perform a clean MIM artack, the target computers would have to have the original ARP entries restand by the attacking computer.

### Hijacking:

Connection hijacking ablaws an attacker to take control of a connection between two computers, using methods smaller to the MiM attack. This mansfer of cound can result in any type of session being transferred. For example, an attacker could take control of a tablet session after a target computer has logged in to a remote compoter as administration.

#### Cloning:

MAC addresses were intended to be globally unique identifiers for each network interface produced. They were to be burned into the ROM of each interface, and not be changed. Today, however, MAC addresses are easily changed. Linux usurs can even change their MAC without sporting subvace, using a single parameter to "fisconing", the interface configuration program for the OS.

An attacker could TMS a target computer, then aveign themselves the IP and MAC of the target computer, receiving all frames intended the target.

#### Slools

ARPoison: http://www.prods/-valueritips/iow/ ARPoison is a command line tool for UNIX which creates spential ARP replies. Users can specify the source and destination HYMAC addresses.

Exteroup http://efterosp.notors/orgene/ Exteroup is a powerful UNIX program catplaying a text-mode GIII, easy enough to be used by "script kiddles." All operations are attomated, and the target computers are chosen from a sentilable list of hosts detected on the LAN.

Exceesp can perform four methods of smilling: IP, MAC, ARE and Public ARE at also summers the following procedures: Injecting characters into connections. Suffing encrypted SMH sessions.

OS fingerprinting. Contection bithing.

## Farmsiter

transite is a decision which watches a LAN for ARP regions and automatically sends agosted ARP replies. This places the attacking computer as the MiM for any computer that frombasts an ARP region. Eventually, this results in a LAN-wide MiM actack and all data on the switch can be suiffed.

Parasite does not do a proper cleasup when stopped. This results in a DAS of all poisoned computers because their ARP caches are pointing to a MAC address that is no langer forwarding their frames. Poisoned ARP entries must expire before around operation can resurre.

#### Delenses

There is no universal defense against ARP specifing, to fact, the only possible defense is the use of scalic (non-changing) ARP corties. Since state entries cannot be updated specified ARP replies are ignored. To prevent specifing the ARP achies would have to have a static entry for each exaction on the network. The overhead in deploying these tables, as well as keeping from up to date, is not practical for most LANS. Also of note is the behavior of state roates under whiteway. Tests found that Windows still accepts specified ARP replies and updates the state entry with the largest MAC, saboraging the purpose of static routes.

MAC cloning can be prevented by a feature found on high-rend switches called Port Security (also known as Even Binding or MAC Binding). Port Security prevents changes to the MAC tables of a switch, or less manually performed by a network admin. It is not suitable for large networks, or networks using DHCP, Port Security does not provent ARP specific.

Aside from these two methods, the only remaining defence is detection. Argundatics is here UNIX program which listens for ARP replies on a network. It will build a table of JPMAC associations and story them in a file. When the MAC address associated with an IP changes (referred to as a flip-flop), an email is sent or an administrator.

Tests showed that routing Parasite on a network caused a flood of flip liops, leaving the MAC of the stacker gresent in Arpwerch's causals. Ettenesp caused several flip liops, but would be attition to detect on a DHCP-enabled betwork where flip-flops occur at regular intervals.

MAC claning can be detected by using RARP (Reverse ARP), RARP requests the IP address of a known MAC address. Sending & RARP request for all MAC addresses on a retwent could determine if any computer is purforming clening, if analtiple replies are received for a single MAC address.

If a MAC flood is performed and the switch reverts to broadcast mode, a computer will have to enter promiseness mode to examine the broadcast frames. Many methods exist for docacing machines in promisenous mode. These can be found in the swiffing FAQ, at https://www.robeograham.com/pube/spiffing/faq.homl. Note that you can perform ARP spooffing without being in promisenous mode since nedirected frames will be routed to your MAC.

It is important to remember that operating systems have their own TCP/IP stacks and Ethermet coals have their own deficers, each with their own gunks. Even different versions of the same operating system have variations in behavior. Solaris is unique in its treatment of ARP replies. Solaris is unique in its treatment of ARP or points an attacker which have to 20% the sound timeout period. To poison the cache of a Solaris box, an attacker which have to 20% the sound their after the timeout period. This DoS may be decerted if the network has an Intrasion Detection System in place.

#### Closing

ARP spoofing is one of several valuanabilities which exist in modes networking precocols, which allow a knowledgeable individual free reign over a network. IP spoofing, TCP sequence prediction, and ICMP redirects are just a law examples of other current weaknesses in these protocols. It is unlikely that these protocols in its unlikely that these protocols a will be addressed until they are abused on a wild enough scale to force a change in the states quo. The problem is passed to grow as beoschand Metropolitan Acca Networks are inspermented using Ethernet as the protocol of choice.

Information in this article was heavily reflaenced by the Elientap and Parasite projects. Proof of concept tests were performed with the tools mentioned them, against Linux, Waddows NE and Waddows 2000 matchines.

# how I got banned from e 三三〇八

## by Darbyersh

a matter of four with Diable 2, they made everything offices affect what using a hex editing utility like Wind good fun they still have their open bushows which server sate to step that processe. But in the spirit of Garbes like Diable have been quite well known the it. back or Sell 300 - has been asound for a long time. orders who went to play that way. sail our to readified and others that option of play to However, they have see ned to han players for it. As Offset hadding - the process of finding aut which

ir - you don't have to warry about going to juit and to try and figure out ways to hack the game. Thick are the game a long time, then got bound. Then they start out there goes backed. Why could like fun. Expically in constantes' pockets, the companies usually dea'r core engarious and per enough useney into these gende sidering must of the people who do it are powyou still have the pleasure of bearing the system. Onestants off with mest georgle the same way. They play ther much about in. In all honesty probably every orders game that's

graved with this cradit.

"It is my regardful duty to inform you thin your

, bas berzebanseajev re

Therefore a constant is

man centect was not offered. Many uses were first proof day tradewal some nice form laters. Live him-300 seconds for hacking. Now when people wheel for

they still haven't fixed. Come on, after two years you on and asually will say they need to refer you to a sefrom the stant. Their so called guides are narely even bly had the worse sent of customer support right call it. First off, let me sake this company has probedisting Everyorst game or Everytasis as even like to would trank they dige in aight. nice gue who is dever on. Not to mention all the bugs Then along comes Vergot Inc. with their all of-

came when Bon Ziegler came up with a matro utility eyen think they don't care since they electorely don't quote franchis website: "EQ Manere is remperorify He was stopped in his tracks as you can see from this to taske pains play better. It was called EQ Macros care enough about good customer service. Wrong like a mighty entractive proposition. And you may port program, the Origin's DO Per program, so the him to consider des ellipting a 3rd party distributer supthat I step work at EQ Mix att. I respected asking ley, CEO of Veront, seed me on emile and requested on hald - it is not being sold or developed. John Sound Warding signs of their attitude about any applications and of course new officer backing Everquest seems experience. When received communications from the we could mark together an uniproving the AQ gaming Obviously, you being all these elements together

> tive is not going to offer up proof of how they know ing some kind of client side searcing. I do know some

PC which is an invasion of your privacy?

Uthink the mass bargings with no offering of ex-

country. Or is the neal quality that they are seauting your your hacking. I think they should return your acinnocent by standers did get businest. If Verent Interest Backing. Which leads up to believe that they are doyou effor proced to back up their claims that you were the price. But what I find interesting is that they will

> those characters was a lot more than than. The fact that it's only \$10 a meeds, the time per into building up One thing the company (book) the restree is that while verant is not showing how they eaught you and just giswoong with a form letter is 85.

gelf get on the Hackingoesi board I will end this with a post that John Smedley bits

appropriate to hack Ever Quests This manage is addressed to show of you that are

being bancon ander. fails, bow will find that a large number of propie and "Read ticher messages on this blood VERY care

able to some your PC for third pasty apps. They

While's also interesting is that weeks wanted to be

was a provided grant and provided by a company of the property of the property of the provided by the property of the property of the provided by the provided

two compliced users to allow Venent to upload any data changed their minds after users protested. It would

that could "interfere with the proper operation of

Type Obek.

lacking is going on at the other and of the paint

Now the thing to keep in mind is that the offset

is on the IXI that you bought. Also coprides the fact

that you bought the software as well as paying a SRI a plying is then you can't still be both at something that which see on your hard drive. So what Verant is into

month subscription for.

Recently Verent and Clear Navi squad banned ever

## これの大名が名のできずないはあるのからので by Lucky225

up won't light. use lights that tell if an extension phone is picked pick up a phone on your piecer line any of those in The invisible how will make it so that when you

which you have affirmatively agreed to white by each

Discribness United Againment and Sufficient Adamse, to electing our Konguese Rules of Conduct and our

and as such has manistrated the remarked of journ several points perspected to other your particulary is not toler and and riving time you play har Quest. The use of a third

dagarasta sacaram sa sanjasah ben anny kest fit.

the phone line. phone line at about 20 volts, and most in use lights of 685 dems. Using ohm's faw, 685 offers times 28 may gets yet 19.2 with South resistor keeps the on the phone line. When you place the assistor as plane is off-book thate are approximately 6 volts draws 28mg of current, which areans when your phone. The phone is approximately 215 ohms and resistor of about 470chas in series with your about 20 value. This is accomplished by placing a and there's supervision. The invisible box works pertien anymore until your pheno goes off hook the veice path is out of from the party calling you multy still works, but because of modern switching keep the phone like at 50 viction you pick up it acthe informate block box that used a 1.8k resistor to only go off when there are about 15 volts or less on somes writin the phone line, there is a total posisioned by being high revisiones to keep the voltage at and the phone company doesn't allow a voice con-The theory is based off the same principles as

regional and cord will as inger to billed for the sur@uarbatusexy.com. As a sende of this action the this seriou please feet fore to contact egicliquezes

fractional automophina feet

Now granted we all knew the risks and we paid

"Тід рікані укаліст укат рекі районада."

## Construction

to the middle. Den't on the modulet jacks off stilly electrical tape or solder. Strip the phone cord Sistor in a live-pack at Radio Shack for SUA9. It Sister (yellow, purple, brown). You can get the rewouldn't hart to leave some wire strippers and pite-You will need a phone cord and a 470ahra re-

> Charle may 4 ch just back you will be calleted, each you will be borned grown three and will confine to do so in the filters of We figure been dauging dirings on the server for

は数ないのだり

Child Operating Officer Sony Outline Benericioneni

BS. If they were logging as they claimed, my friends people have been handed as well. But they were fortistate opeugh to be out of lower during that week. By the way, the thing he claims about logging to

the positive wire, and single anion flows from graem and yellow. Don't worry significate block thiel) in half and strip both ends. You're going to and Sillow wires. In fact, our that affine they'll CINCULTY LOSINGS DATA alone! Finally, out the 100 size (that's the negacurrent so the solings won't drop, we have it negative to positive and we be trying to oppose get in the way. Leave the greek wife stone. That's "If see foot or sam vitres, usually jotack, and

## Conclusion

toos you always see on TV. even bypasses those lame \$200 photos rap detec-Interior with my phace late! Get off now!" He had daron in-use light and yalling at mr. "You're on the my phene time but ward to use pre-prain line to go is their Rid Personally, Lustria when I'm talking on on and they never pick up to yell at who they think hooked up to the phone line, that light researcement they always look ar it to say if their kid is on the you you're beiging off of has an in-use light and ing with this box and it might save you if the perthink of the posselelatios. You could go being boxdiscsir't light when you pick up the phone. But cause all it does is make it so that an in-use light their Ridge that analytes there is no real use for this be-New she'lt getter know! The sed thing is I bet this on the Interset. My more is shockys chooling then phone. Burgues of your trusty invisible box That's it. Pecty simple his? You might be

manda philas, capit, speciese, Climeyo 2, and assume Big 80000, Wegge, Girme, Modisid Angel, Lanceefred left out? Greec Basi my belowd! Speech, floris

Fall 2001

is always right debrately does not apply to Yerana pury can get away with this shift Saying the customer What's the world coming to what some gaming outly dence is at most the sumo as Kowin Mitthick's case

commands like ping to be used, but does not allow privilities disabilited and user. User made allows simple pessword is what the facts of this article will be au make cooligateston changes. The hyposonip of this you need a password to get into privileged mode and global conliguration of the restor. The problem is that are two modes that you can use on a Cisco poster: sources and the password bypassing of them. These This is partaining to Cisco 2500/2000 scoos

register setting to ipure the contents in NVRAM is note the password to get into privileged mode. The configuration in the NVRAM so that a wrill also betion contained in the NVRAM, know us the startery config. What we will do is will the pouter to ignore the which another that the rooter will book the configurawill been. The default register setting is 0x2102, if bit ogister that basically exercis bow the router Oisco routers - 1900/2600 series that its - contain a

person, not remotely), and then back ee. Within the ring. We sweich the owner off (rois has to be done in (carly-break) which will take us to our of the two that 30 sepands, we enter a break command This is how we go about changing the appistor sec-

in privileged upode: change the privilege rande case-

houser(config)/housing register 0x2 l00"

word, sat up table) passwords so that you can chancer

nametrally, and greaty offices. Own you have made your

For \$500 mater: "S" percepts for a 2600 nation, "populated by"

"houseout I >resof" for the 2600 greater "bo". This will give you options to turn extent bits Togg2000 1 s0x3142"

be leaded that have,

This will save your changes to NVRADA so they will

"goner#ongs and short"

9月98 for first The one we are people to solve in the 6

> KET programas diffe duplishing Enter password

Type 0s2145

NVRAM and reboot the 2500 research "si" which will altrige the register to ignero

peal book. Do that within the chainband: mode. Now we have a clean shoot to work with, No change the register back to the original configuration legation and with the origin. One thing you need do to configurations on the retter and you will be in privi-We sow load the cooligaration that is in the NVRAM passwords and set and no could gurerions are set - those ward to enter setup piede. Choose no to net into use 80 CR (for 2007) Valid (2017) 20 CR (for 2017) Valid (2017) Valid (2017) Valid (2017) Valid (2017) Valid (2017) to RAM (running-config) with the command Separation with no password. Use the command ale shift in the NVR基础, However, we also also passi-"romentcopy scan run". This will put all the original "renter sent" and that will put as and privileged mode. When the restor rebooks, it will ask you if you

Now there are allikinds of things you can do enco-

(La ever-popular "1234" bopoko

Me Den

pioneps shows the following into: CE II parton: 0032 Highing the red CANCES button after the passwood

WALLSAI Line Soul 100000

Gradell Deals. might not be or o on. Is flow, I don't know what any of The pad cases quickly, so the order of the data

whatoes tale but So with a little time, you're sure to medical policies and there are invested to be because of a diest enspection, you'll docted the reliable signs of Mi personalized by organized dialogs and gifts. Open (Suff.hard). This is a possumer operated terrainal four Access Technologies (http://www.sateli.com/cs/deand a teach screen tenainal collad Quock-Scribe, by machina. Al your local Sean Watch Service, you might The first back is akid to opening a Chara-A-Alem

pignatic keypade, beguing for you to order the four for me). You should get a whole screen with four 6-9 DWD EDG TOTAL simultaneously, quickly, and repeatedly (boy, it worked Junity at each top content. Now provide top ontent Start by gradding the street with both hards

> digit pays code. With 10% possibilities, start with the obscious "1244" digits work, but "1111" and Thus brought up the box serious of all - a white serious appeared with "PRIVILIXALD ACTIVITIES" across the log. Sugark pood. The determinate is under it were: View Log Piles (Details)

Change Stock Engagerer Utilities View Log Files (Sugmestry)

Modify Site Specific Data (Intury) Change Peripheral Configuration (future) Run Diagrassles (future)

Capture Data Cumplete Prublem Report (future)

Merchant Summary Report Restare Application

here you can do as you please. should penals, as the Quick-Seribe approximits. From with appears Quickly pay up the Scott mans and it NT desistop. Touch Restan Application and the desktop The last accompand will get you what you want a the

anachines called Quick-Top targeted at the per owner (Assess Technologies has another has of engineing

geniance and knowledge with energy italism (ipolading default passaudes), check out the TAO's at http://www.magask.com. Aod share your ex-Withouther your explanation into the devence of our

(There's year factions !

# Retain Maronare

dual\_parollet@bolmail.com

and codes were discovered one time through a line. these backs are the beginnings of basis; all key presencreated and proceed-sale (POS) hardware. Actually, Those hacks deal with retail by vice as considering-

tey, pressure four corner bettens simultaneously - 1, 3, transaction, insuring accuracy. To access the master sides in the part and a session key is generated for each tendersten, management textoxipies in meser key rekey conagement. This simple back deals with the Mosusique key par Canadation (DEKPI) or master/session fore-pispad1000.htm). The PhrPad offices derived ELECT 100 Copy of misses and confidence and The find piece of POS bardware is the VeriFice

> ing how many digits consposed an Miley. Jon. Broke force weed the parity of their waterest known field, either from the establishment or a Varifiere verginomics, the number of digits in the Micey at the Micey The gest step in Biolist exploration would be social an-Enter any autober and "ENTER OLD MKEY" appears CLEAR, and ENTER. "WHICH MKEY?" appear

tent right ENTER tenon simultaneously. You'll per-CM2001I every two business days.) Across the net-between overy register effyeor facarite store, Wal-Mac. iThese extends by publishing the top left across betten and but pin pada see a lar of ecrien with a Wal Mart opening The next piece of POS hardward is the pin pad at

Kodak Sixture Maker: HACKING

by deadlessie

on heality high quality paper. You can retrieve your BOM. It is operated by a looch server and if you don't Sources, including PCMCIA, 35" Pappy, and CIV pictures that you want to print from a variety of used to each images, and inviges, and prior them and on, it takes between 10 and 15 minutes to boot up at and curn the switch on the right hand side off and reach down to the slot where you got our jernous our like the way the screen is calibrated, by all means Rodak Picture Maker is a Sun present computer . Your first question, I'm sure, is what the hell is it? Closed Rocker's planted Ross son

Osly&govtocoticoup€ede=2 soundgithiofwebWhereToBuyplXonn-curve-To find one in your seas, try: http://www.kodak.-

Why Would I Want To Hack It?

diso, I believe it intringes on your privacy sucheur Because it has pretty colors on it and makes make.

> by louching "Frint Previous Pictares" on the recent. an internal tourd drive on the both. You can view these password in and your print comes out. They den't word. The clark or study manager pursible screening off of it, it requires a gassmention that they save a copy of what you pointed to letting you know. Whenever you price How To Hack it

SUCCION DE CAR JUST EL MONTE. my you are in. The store marcher can usually be found present the betton on the server, if depresses, You will since the a teach screen and when the operator on a provipt, or if you don't raind sevening reneglicutimes out of sea, is the store number of whatever facil ages to Bappy, Withy pay 35 for their fingey when sno now he able to print as much as good like and copy in Shoulder surfing the purseased for princing is easy. teat, one to just into setup and one to paint produces. ean the yours for 30 conts? The scorp password, time There are essentially rain posswords for the sys-

we become select about things that matter." So heap Martin Lether King Jr. "Our lives begin to end the 639 ther was on the wall in any high select I think in was plaining about it. In reply, I would like to give a quote the government so you should quit blicking and team will have a high-speed laterner connection and will say that you should expect to be treated unfairly by letter and said yee receive many similar letters which listen every week. Anyway, at one point you read a Commused from page 30

The can round on it

TAILURE

These 20000

IP ranges on its window. See I did a neverse UNS were registered to Ford Motor Company. Nice one Stakep on a computer in each range and found still Luckiesed that on the cover of 18:2, the touck had Omega Red

The issuesped to wrest from this society was stimuin the salvation of free speech. Viva 2000 provocative abought and the opportunity to participate open-mindedness. I are sixkered by the WBAI crisis ideals as conviction, awayerers, communication, and but it serves as a weeke up call to all those who enjoy foundation I've mystepot to held upon such radical leted by early exposure to Pacifica ratio. From that What have individuality and independent thinking

Keplant999

find adjusting ord. wantedelitest were surparificated and mempero people have evalved quickly. Europeans hold the key as no how this neith play out. For more info, nich gr WBA) and Pacifics Heren's reflective the entire

tives. Aming you guys rack! Keep it op he degoing of human telegral in built has a latter perspec-As an alterney dedicated to freedom of speech and

National Treasury Employees Union Assistant Counsel Michael Placsek

South Africa

Article Feedback

the Microsoft Script Encoder I was seposed by Me. S BLOCKS little long - there are a considerable number of points lew comments I aprôngize in advance if this gets a Brownstone's suitake on "breaking" it in 180, Uhave's As Jean one of the people who helped implemen

ingstelf included. Nine also that Ball Cares has no sib any relative of fill Gates. It was implemented by was implemented by "Bill Gargs" links neighbor." The members of the Windows Script Technologies team. Microsoft Script Encoder was not implemented by lings and hence has no nephews. Mr. Brownstood applications that the encoder

> correct detayling algorithm foren a backer less than a codes in 1998. This is very old news. received several mone single them. We shipped the Euweek after we first put the code up on the web. I have 2) Your article is not exactly timely. I evadical a

be a waste of developer rime. ugait the address of the plaintest is posted onto the coded script. Anyone wishing to coad the plaintest reserve engineering this will reveal the algorithm." In abject that does the enexling shipped with IRS.0, so cryptographically secure encoding algorithm would seach. Hancet with this fact obviously implementing a next only attach a debugger to the process and step must be in anomaly on the casetine running the enthat decodes the ciphertext - obviously the VBSeript the encoding simplishe. At some pains the plaintest the plaintext. New that this is a good reason to keep and 3Script origines are such objects as they equiples teacy pointing our that IES also shipped with so object Mr. Brownstone contestly open that "a COM

eaken the time to ask are beforehead, then I could have explained the design editoria for the encoder be-This is a good question. Had he or the editors of 2666 Mr. Brownenne aster "if it is about preventing casual viewing, wher's wrong with... a simple XOR?"

form your steam to process.

gestions (XOR, warnively, based). URL encodings eritaria introdiately rule out Mr. Brownshood's sugaux. It must also have no export restrictions. These one which also did not make a ciphertext tanch lorger age! Uniqueto text, one not afterly trivial to decode and was small, fast worked well with both low-ASCII and quite a lew offices that we considered BIMILIASP tags, for ceasons which should be obsiproduce a digherous containing "efectigity" or other than the phinnean is must also be governies of to never Hirst, we needed an encoding algorithm which

open saying. "I gave them the suggest adds in an en-godget former. The fact that they have excluded and code in plain text but I put a common in it saying 'Pigeae don't read this.' " Compare that in the develnot take sections of the fersilloper's code out to use for pario a developer creates a solution for a enconcereven the most important purpose. Consister this seeone purpose, but it is far from the only purpose or simply to prevent casual viewing. That centrially is a deliberate attemps to defraud me. open sues Imaging the colector's standing in fright of the judge saying, "Well, I pave them all the source pology to a sestimen name a contract which states using some script technology - pedlags a set of Acrive samption. The purpose of the Script Encoder is not was no accidental glance at the source code but rather ing and Okarby break their feetising agreement. This resold my code indicates that they must have implethat the customer will not modify the code and will 20th of scripting. The developer than licenses the tech-Server Pages or some complex DITIME code with resulted a special root to deliberately book the askindcorner violence the larges of the mountained the develtheir that purposes is appear to the more the trust Second, the question makes an enveranted as-

The latter is elemently a much sureager legal posi-

providers who have "you not use service-one assistant there are in violation of their contracts. Basi-bytecode to first private compilars and over The object code" contracts - clients with pupilitient the same legal looking as chart readitional solution plainaest in this situation. This pure steps writers on who is now sia birde cryptoprophy is far, for superior to rigia. Even a simple exceeding many broken by anyone

protocolos scenarios were the primary scenarios dri and implemented the Recoder. gothors to determine their needs before we designed ASP solution previders and other professional script the primary scenario. We had many meetings with light security is the printing societies - fedge in contact to <u>jie implementation. It is a reischzeiden isaties ro stote</u> Redure but certainly not the scenges that merioned sampts from prying gots was a finalisative regressed goden. This ir also ettoras won developers to hide their ring the improperation of the Microsoft Script En This scenario and similar intellectual property

structures your server is compromised the backet using the Script Knowter at obtained your ASP pages make serious problems to cope with than having your more if your servier is compounised, then you have far seelen and decoded at the bucker's laisure. Further-If the server is compromised than, the source can be ment ream ever even considered, for obvious acaseus malicious abolders was not a segmento that the devideoptained in the scripts on servers executives by tions work." Protecting the intellection preparty conwould be easible to find out how your ASP applica-Sh: Brownstone wares "Microsoft recommends

stly see in it that it is opening of applicate, for the encoconical which recommends this, then I will playerested to know why you've making this statement and as Lought to have been all you careet, then I'm bridge mistakes like this and apparently I was not as diligent of whiting. If you can send the a URD to a Microsoft would approxime a clarification.) with them that you do not the control in a several type that if surrection seems there, insulface there, and rewill We recognized objustating your ASP pages so mean) days, I containely tager refer resonance what is earaugradica in qui charágeológico altera wa recom-There made a back search and I am unable to find

My the We percent of the population who have no Organizating stells from reading the code, and (b) receing "security through obscurity" is therefore Reuse the and the rest of the development team of of-Paposted to the Microsoft Scripting powignous. To the subject a long time ago which is still investmelly Tip about the Sangi Encoder. In Fact, we was a TAQ on the bandrady of propresumers who have given seked their spesifies data - an algorithm... the needs to be take an equator exactly this position to every one of country programmers to find other ways to store Fire one. Rather, we have a simple tool that (a) will tessed involvenual property. We do not claim to profather unfair. There is no perfect way to protect scripthidden is just a ted design." I agree absorbugly and I 6) We Brownson weren "Microsoft should be

> traditional programmers have ted for years. provides script andress with a similar again feating as

comments about any Microsoft Saige axthrologic (or anyone else for that matter) has more questions or 1000年公司 jáva you publish articles about them - it will savo time then please don't besitate to email any (proferably by-Highly: If Mr. Bovanstone or the editors of 2000

crosoft.com/scripting for details.) comments on the cryptographically secure digital Hast version N.G. (Charconty in Bern, see raydrami signing which five implemented in Windows Script I would be personally interested if any of you had

Eric Lipport

Hear 2600:

tion" of composer terminals. New, unless I missed Average de la notificación de la contraction de public space, and charging people to use for compilier someroing to philosophy class, there's nathing updfur cal about purchasing some equipment renting some In §8:1 you published two articles on the "labora-

påd såit like diis is erough to ensure föst stores acher says that he prinched his engry at 1968, he saying "Sea keep as belieful the country or step contring as also-In the same volume, you respond to Wiss, who

is: properly rights for us (the system-clas) and a re-Section. sounding Fock-Off to everyone ober-I guess we've exposed the backer ethic for what is

terfinology whit. This is, offered, which we exist to do to seed semething but native fight to manipulate the disignation doed belong to you, bare share here ever SERVICE CONTROL OF THE THE SECURIOR DESCRIPTION OF THE "Silvention " Their contains were normality for box You show no he couplined about the meaning of

Depr 266fc

Heres secretary nine

Exercipit the page and select "Google in Your Lancan play would like a 57357 bank's distanpeople of When the page loads, select "Blocker". You Then, when the search results come back, go to the Contention of the design and search for something

W(19) 5

100 ICK

Dear 2000?

isfied subgriber) was invulved to a proof book web-course catted '8-bit Treathof but I read now and shough it is about a tot of old Ninkepio characters) -. companies to the North of the Party of the P just waugad ta tell god about it because I serow here you were explicated is www.miklesingreen.comagain. The URL of the comidistration site is well-make interested you are in the grant to the your party leachower sount and the L.Rilloft the consisting which Your magazine (to which I am a dedicated and sar-

lamnoone

Z,

And charters have been feedbest over decount. regiment if an art expressions of free species. They were Not really. They shed the power gay who aloned to

# Quest For Knowledge

blanks and deplicese the key and/or syprogram the areas such as ways to deleat the Dailsa Key antion gate to and ghier rate with articles and/or a roo factory find someone who has encountered this item and is daughteubeard and accorded to the protherboard, the shape of a watch bastery and it's approximately NA of seems coult signific scaled a Dollas Key and its liced for software security. The new generation is in the route around it. Even before would be a way to get type website. Anything to get ore further than I am indometrien on this stem but to be avail. I see to ingle to sedware becomes invalid. Uhave triad to gate some an meh in diameter. Without the key is place on the lest. Thanks, for your below I have engraduated a link gery that has caused

Satereded

time to seriously consider an electronic standard. The most efficient means to comduct an election, it is now clear and cerecise observe feature. In deference to most process election has propagated the need for a Joy internamen whose valing systems (\$7:4). yealing and objusting those errors. to Shootingly extists to allow for a stone exact method of Raiph Moder and his belief that a paper belief is the magazine. Anyway, f ara responding to your regard. Lam a new reader of 2600 and truly onjoy 5 our His

ist both advantages and disadvantages tions are conducted. Yet as with any system, there ex-Recording Electronic Voting System (DRE) - The states are incoming towards implementation of a thereis DRE will be a tramendous improvement in bow show Epoint what I have seen, heard, and read, several

time. There are no many security holes, section is compromised, and you cannot verify who the person ing. A pixely web version plaction is undeable at this on how as sevelop and implement electronic battersoling ready is paralleral becomes more efficiently. DRE's have no uniform sanatard. Vendors differ

son goes to a voring terminal and then it is like using an ARM. Page the cord into the remains!, punch in the commodate non-English speaking citizens. The percards can be programmed in various Singuiges to ac-Steaded on ATM type cost and password, which has the official veting rolls for that precines. They are then their ballicing conter where they are marked against prevalent at this time. Both utilize an AIM-like interbeen programmed for their specific election. These he transported for disabled people). A votor arrives at face and setup (including a laptop version, which can There shows to be 140 DRE versions that are

password, and vote.

end cuta "demped" into a central database. Hardware migripality poster, particular polling place for data and software comparibility does not take at this time dens have developed systems that can be extracted pahijily to network individual exappotes. Other van-There is no apparent backup (et a back stone one o cahave stand-alone eystems that explicate dark on a disk There is some talk of attystem that may be networked Here is where these systems diverge. Vendro-

ing their infermation and of the public denomin. syxualis that do not that it to each subdy and are keep At this ties must readers are building proposedly

infestity expents. discuss more of the space for DRE's: www.neiaduly jones weting longress that ly (testinony tions cooxeducem. www.solchere.com/\_www.cat.obswife Here are sense websites (vender websites) that

Total Sales Control I have this information is a decent starting point

CHARLERY

Dear 2600:

not to add the vettings of the programmind user, if won't for me change things like POPSMIP servers 10 m to dial up a normal ISP and use strangered of the own and logae/passes. Somehody must have a way around programmed ISP. When I person and new exact it approximately for the When I ande." I was wondering if there is may way them get it Incomely purchased a MaiStation Tomail appli-

Satellite Watch

Dear 2000

ir has a microship doesn't mean it's safe. seed by Direct V and very easily backed. Just because just wanted at add that the Yasa style smart cood is also just entabled reading the activity by Balu 138 and

Dear 2600;

it Jooks like Bured V has already less lawsuits in Cal. tially or coursely talk field (see www.legal.zights.org). sort of legal representation. Tais, coupled with some theft."These letters are quite threatening and some to warn to scare people into "fessing up" without any end user. DirecTV recently sent opwords of 100,000 after the legal harasonical it will dealt by Diase IV. ter that was intimidated into shoring down operations issues back where you mentioned a sandhre newstern itionnia (equation of thes), really brings to light the ends information that the "evidence" involved may be parcertified mail letters to homes suspected of "highest Well, they are at it again, but this little targetting for which this impalementate corporation will go in TOTAL STREET I concenibe an autócosacionar published several

Mangaburn

takes for people to start buying take the wetton than What's amorting is time should precise of these at

> ceptotic in our militar - 1913 southerest who figures our unangoses - med if she peoples quadruple. This is on to the contained the price tempine the same or even remaining and bursted. For some of that ever trickles sissen dimakase, da orber voorie, üksir insorre petrafiid is to the world see to call the industrible high time their happened to a salectic provided all they would have bringer and provide them with bound of the same thing makin butter to anciotain an appays. The carrotten times a cubic company, sanditor parallers has a no wires on demysting a scientria rightii ir naedam tiigli. Chiite how to decode the signal is southful a third July company explicit home to unsamble to easy chain propie suddenit et eide eine auner die ze rabie, the est boy the disk and the services binking. If 20 million

this is pair fault." This is not right - the problem was real pooblem was and try to got them to purchase a rein right. We had to set take we didn't know what the Network bad politic for this problem. I don't shink this were doing a volumer applate on receivers that were Dury, pot our outdoners. ner white signs raying Tollows do not tell colonomers than placement. Menagors were using around the call cenwould have to pay to get a new receiver because Dish vice control Auguno who was not under warrenty not be creat agreedy". I work at their customer serand wate giving people the message "619 smartened Must if pg all of the receivers and not take the spokets form that Dish Nerwork uses on their new receivers soour 2-8 years ald to update them to an Openity plansometo that the company Dish Now ork made. They I would like to inform people about a major

SERVICE STATE STOP the all the inneresting for see if any of our remarks the in-

A Handy Tip

Dear 2690:

leave meeting about computers). She completely in, but it does let you remains anything white it is on arappy Madinoshos at select!" This Gossa's get rid of you've operant, and practo! the fifth meant on the Marinbosh FED window that file you want. But instead of pushing enter, click on alle, simply open up Maximosh IID, shan rensinte the featest not and sent him to the office. To remove a changed the Macintosh IED on his computer so it said Some any was posting the cell in comparer class. So I "Stort is a masta backer", then told the teacher (who Do you ever get lized of Footpood on those

Antiboay

The Evils of Microsoft

Dear 2600:

event with any timined experience with Linux, I am aptheir dealings in the LIK more clessly. I must say that result, have started following the Microsoft case and nothing can software with hugs and security bales palled that a company with such a track exceed for from a recent addition to your madeusly) and, as a

MODEL! afterer solution, and in my view iteaux and UNIX of comes and web services. If there is a baller and more only choice if you want to have full payous to the inprocessor will you "we"ve put in your new origins loss your car to a gazage, there's no way you would let a Epilds soch z dominant foods in the market. Hyen rook politicians will unitarizand, it will cost job less the fell, then sety not go for that? In language that world and I dread the day that their software is the but that't wany - we'll send you out the bits and belief for you to fix it yourseld!" Stuff that' to any core the elignoss are in well feel on you form since to time. they're nothing but the declar plantiers at the

applications the raid date. You go with what's best for you, and self bonds enough to pay charges for shareware such-ware iff I intended to knop the product on my 810 past opens kown as provide the best service possible in their logs the out user open to various epticing and dorescan continue to develop attractive software. This you pay the developers the cash they're due so they Regarding software charges. I would consider my

softwelle to as customers and given their track toward pug's daily lives, you may have to talless there is an is the day when they will be able to stream software with sections flows and reflabilities I want that allows-Microsoft would have no incentive to provide quality alternative to Microsoft. Willbott fair ecopyrities. the lone, when the web is forther integrated into everyphose bild? You wouldn't want to but five years down Internet if you gaid for sorvious over and although your our all competition. Here many people would use the electricity, for set charges and, in the process, squeeze and services to occur, take the way we receive gas and But what \$4.0 (soft seems to be booking towards

posmism Microsoft? own information and a laumanitation right to our prithing to hide but that we have a right to control our above anyone sho but I am not comfortable with any very much fiell. Again - a scentig issue. These argona individual and I'm happy with the way inis, thank you PC without any knowledge, link not that we have anyautoreages in formetion exchanges happening on my vacy. This control should not be taken away from the Thoughous steelings Not software, I don't know

in the government to point of the situation. UK (Passya) Office, myrang). I pro fast Justine faith the generalisest bissory of IT project failures in the ward. Green the wide publicity of security holes and Go CK government decides to take up with Other softthe US government condenies Microsoff's actions. Finally, the government issue, to the same weak

migrey dollar. 🛇 pared to exploit their position in their quest for the ficials, but by laggless corporations, willing and preatong. In the fixury we will be ruled, but by elected of It seems serious fiction writers have been right all

Microsoft dominating the UK anistest satisfying and  $g_{\rm SM}$  in the UK's  $\Pi$  skill should be and another  $g_{\rm SM}$  out. somes things like this, I find we are peoply prepared to I know The girst ou bate, but I find the thought of

this for king thing anyway? court just to recoup legal expenses? What's driving order just begarfor remained seaso. And now New tails, but the recent severage of the Microsoft Socialism and don't persond to understand all that backing one ing paid. Excuse me, our government is sending out of Mexico backs out in eachange for their legal fees he coinds to the consists of precions I am a stroke lackar. Final of self, thanks for halping as all to open our

keplaar999

2000. Octobilizace? Ethink noon Thear the find build of Windows XP is going to be THE PROPERTY

हिने प्रत्या है कि क्षांत्रकार की है एक कि

# Just Plain Evil

(using cameras and compared) to see if you are a "criminal" is bud, hold on, it's gesting worse." If you thick having your face scanned in public

dispatched when the software makes a might ethan wanted on any original sturge. The police are the smooth Using software called "Facult by Yelmo-ics, snapshots are compared egainer a disablesh of making in Tempo. Florids. Comercs are mounted in high onme neighborhands, moneying passenby in 30,000 people that includes rangeway inchagers and A public face-scanning system is already up and

can ger you. monaion (library, post office, street comen, etc.), they tains information which identifies Thank characterist make it sustration the governmental to find you. When per of a decease sound by government agencies. ties unique to that individual." The file then becomes cial 5D mapping software will be used to create a yed have your picture taken for a driver's fixed set spethis way, if there's a camera the government can "facegoint" file, not uplike a lingorprint. The file con-The Colorado DMY is installing new software to

parking ticket violations system wen't discriminate between buck robbets and woo't matter what kind of crime you evaluatiled. The the officer if the software comes up with a mestion to police can well aptenoxically sean your base to say if system. The idea is that if you're sping in a pathe sub-leveling a made to Spreamy of the Visipous Parett you are mented. A laptop in the pelice on will along light and a cap pails up near to you, stokens in the I one rold by a freezel in law enforcement that they

dure, a fedit-shipement takes your picture and recently identify and any oweracting warrants. If no reach or screen which then displays information about your for an identity match. The device has a small video wineless fingerprinting device by 'distraics called IRIS. Upon demand, an officer asks you to place your inger ida rha device sitiah dan senahas u dasabas In Ontario, Oxidiomis police are resting a portable

your finguiphint, picture, and personal information

allows efficies to seem you for any concealed thems at a distance. When used to some a crowd it displays susdesired that was see through your elothers. The devices Police is Colorade are reging a batthest radar

perusion's ballotin video screen. All of this sounds like science fiction means for

スが数分・bulling Tigos success. There scanning is "a visual libera that straight The ACLUS protesting all of the above with little

Charles areas selfcccement Separation's powers - powers that go curribair consent. All this rechnology does is give law the ACTAS "Il ablows police officers to engage in insendes," Jays' Burry' Steinbardt, associate director of at Big Hooder by randomly monitoring people with well shared what would be provided by benian

を行うのは 数がのと

Speed Raive

individual prophe? See that we have the acreen no Let's see Conjument? Conjumations? Media? Or

## Just Plain Stupid

bester seemily than such giant upopa responsibility custy, as they are the only people, who would pay for have a 16 year old ero idaioresa e passocal senser with such a shooldy product by Microsoft II is amazing cubic connection. Most are corporate servers, obviwhich no lenger work/topic, one being a Media/One all the II's, roughly half expeat American, many of tiese IP addresses, their expects, NS secrets, each Of ploit like used for the IIS buffer overflow bug than ise, my logs showed 12 bits queries containing the exto serve only two files for friends of mine. On Acquist and remained Appeals on any personal description, simply CoxteRed chrises on. I floor the large to look up all This CodeRed Springly ingrise is quite interesting. I

FOIDIN

#### An Idea

Dear 2600;

Maybe this exited be the starting point to show how copyright law. And we all pash for massive arrests engineered in they get sued for violating the digital with an executation for the view and, having reverse when all the anti-vitus activiary companies each est copyright on it, and "accidentally" release it? Then domb that law Kally is someone our there, even me, crears a vious, get a and show the world how supid they are. How about copyright laws and use them to our own advantage Tribing it is simp to tart the latter on the new

of the test of the state of the Main the general position of supplies that without

# Net Jacking for complete

by Dark Overland of the DoC

bandware is cheep and open networks are abundant gos 802. Hipothycking. The respondentals is the the The least big thing in herbay new days is were

Edvaries, coffee shops, parks, and personal residences. Egan corporate offices to trade shows, conforcing halfs, Wireless activiorly are popping up all ever the place

a two-block radius full unisactional access to the interrue firewall, that miknowingly griding everyone within nal network and attached coupsiny it securios. backbeen of the chargony horacet beauth their coope less LANS (WLANS) are conflicted to the internal In the cooperate environment the majority of wire-

利日の Stories With cold for 上記者 Lytell B. plate to amounguests, which is also cheaper then wiring ightishment. Horeis are providing wireless across as a people will spend more time drinking coffee at their exshops that are offering that Internot access in larger that many that are intended to be accessible to the public to street business. For example, there are usual soffer-Not all networks are private networks - there are

for free two in their neighborhood is a philambropic SAVIA, da Sujuse sos top sassessastos por editiva In Smilly, San Francisco, and other areas, there are

What is Williams 112

data transfer, authoriteation, and privacy. Easitate of Electrical and Electronics Riginaria ISSE). The standard deals with redwork association. SOCIL is a standard for WILANS As elegated by the

prime tions.) specification for 51 megabit rules but is not ready for the personal for eleven megable rates. (802.11a is a The 802.115 specification describes a later update to transmission speeds of one and two megabits a second 2021 It is the first that of the protocol specifying

other precioods seets as "Tippin, 19X, Neshill, are level of the OSI nerwork model (physical) from which The \$12.11 WLAX protect specifies the lawest

with delices the felt of the conting on the of the WILLY'S there are no physical constitutions to a great length works is primarile a pley and adequate whereas were On a realitional copper network, present connec-

is how it is commonly being used in current deploywas never meant to provide that security but sadily that network, all you need to the network name and to be through names called SSEDs. To connect to a performawithin radio range of the wireless bridge. The SSID Instead the way between an differentiable to

tion merited called WEP ing selection. Recent analysis has shown WCP encryp-類形形 Sia Simple algorithm based on SSDS RDs hash-The RRI. IT protects suggests a layer three energy-n method called WEP (Wired Equivalent Privacy).

> repic of a future actiple. nesses are beyond the scope of this austiand will be the tion to be inadequate. The deads of WEP and its weak

Handware.

teams options and cross platform support. mend the Lectric cards for their features; external acsitting in the park with Into Internet access I recomstandard higher your can be welking cheen the screet or sale corp for as followed SES. With this cord and a ()) A coot. I have seen alder coots on ebeycom and co-Har assent \$50 to \$150 you can get a good PCM

COLD DESCRIPTION OF CALCULATION OF C If you plan on seiffing 802.11 frames, I sought a

SOLIVATION.

if its the capited to so, up so linetals ju this decument we will use Microsoft Windows since Cisyle Abreco, Roykeack, em.). For the examples used para for the code gogular cards (Lucent/OR/NOCO All popular operating systems have the driver sup-

Localing a WLAN

it for simplicity I will explain how to do this nector Windows with a Local/ORINOCO and said software. Manager software and orthodr 5SID to "ANY". Fixon Once you have your earl installed, run the Chiene Euceding a potwerk is casy once you got the bang of

38 T example responsation on Market Sever in San Franing. I recommend doing this first near a known not-Now" button to refresh the view (see Figure 1 for an WIDANS that are available from where you are stand-Maniror". A window should open listing all the local the "Advanced" mean of Client Manager select 1816 an it, then as you move around click on the "Scan

til you get a list. SSIDs) and eyels though them, or just malk around unetermion; SSIDs (see Figure 2 for a list of contenon cense with an application to quickly change the SSID can manually seach for common SSIDs. All cardyou are using. Simply program to the five or sea most If you the not have a function/URENGCO card you

conductors restrict wallto produce of adultic solve frames and lock for bowers. This will cognice specialman serious of an analytic serious super of this in-A more effective worldward to smill the SIZ.H What Now?

(000y indutively accommensity. When you get on, click "Network Neighthorhood". You should be able to see the other Joyan and shared resources available on their notwork (identifiation - if you can see them, they gan see their network. You will be able to process the lateract Antha pent yeu ese nuc'e pele to pas a DBCT reacan an IP. Afer you get an III eddess, you wo on

sent to other warders trisks and broaders packets. stilled on your system, you will be able to see packets If you have a suitive such as necknay or dealth in

## Whose Net Is 11?

If you have a yegy amenna (2.4Ghz) hooked up to your year and you are use it to directionally find and help (3.6cg) if he extraor of the W.LAN. High DB yagi untermost size of the supplication, hing range connections. Bioteomy is lat as five to not onless are possible.

Favor the OHCP lease you stream get a domain name with which you can toke up their common regionation on the economy branch page to that the address and facultion of the MaLAN. Another method is fraking up the owner of the IP address these in tig ARIA domains or tracerousing the IP address the another action.

# Is This Illegal? If itself, it will be seen. Willing accordancing for

Mean on of WLANs that are out there is a gray area thing some the people you are deterring as the lingly manifesting beacons authorizing the some of the people without presence. The core degreeing at EP was assistant of the effective with the control of the effective present all amounts absorbed to experimentative only of your own protect.

Short Out in 801 Part, without of the ExcellSD Lincoid and dates in Phillip "Hatrated" Principles his research affords. See also:

inipaliwa wikawagangi Bay Anal Windoss Elsers Georgi Inipaliwa wasar Indiapaona Coffee Shop Internet Access

> http://www.cyri2600.cg/knadiaw.htmcnffttwire/ess/ http://cpoupscheen.org/ps.mps/kn/2/13 IEEE \$62.11 sundwidicatsm.gramp

Most certifien SSIDs Safarra Ayribade Waset, AN Network WLAN finlays default TEKTANSIN



# =xploiting Intelligent Peripherfts

## by Seresmer Chaotis seremer@hackermind.net

At first look a printer is a radio duit device. Educes it coursis very much that's interesting to backers. Other stan the fact that is not because the print out some partly hitherous business to proceedings. But with that evide, no one really considers printens (or any profeteral for that materiate he that kig of a deal, Swilly, this causes them to be poplettly.)

Intelligent peripherals are a generic thing, when used projectly. An intelligent peripheral is not piece of appipeen toocleatup to a secwork that can be crestalled over the Lagoren. By simply scheding to a specific IP address you can execut the interface and therein lies the problems.)

Bayenty, white canning the subuct of my university (tempting as a may be I won't divulge their name), I came amost several machines tableth only allowed sets access. Scarring a bit further, I sew that one of these sance machines tast farthistly left telbet wide eyen (kied of defeats fre primari why doesn't it?). Now I'm net the type of person to sit at a key board att night, pounding away at the legio prompt until secrething gets me informat. I have more important things to do. Neceticless, the thought that same one had made the mistake of leaving telbet epec got my bean entring and my surfacely belling. Was it possible they had messed up somewhere efter? Checking the map rought. Thread that they had.

Several IP's traditation wide open, and boy do boy do I recent with open, when connecting to the civil port. I was numered when I beceived this prompt:

#### All? JetDirect

Please type "?" for IHELP, or "/" for current settings ...

What's this? No legia proup?! Nothing acting for a username and passwood? It was too good to be tout? I did what any good explorar woodd do, and typed "?" Tub is what appeared.

Please type "?" for HELP, or "5" for current sellings

To Charge/Coaligue: Parameters Forers
Parameter-name: value of arriage Returns

Purameror name

subnet-missib: default-garsyslog-syr; idle-rimeout: set-ematy-mane:

dhep config:
novell:
dic-lie:
etherists;
hanner:

1050-18 more

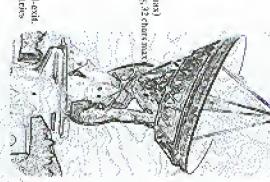
Type of value
IP-address in dotted notation
Inflates in dotted notation
subtress in dotted notation
subtress in dotted notation
schools in integers
alpha-numeric string (32 chars max)
alpha-numeric string (92) chars max

I to disable, I to enable

Alghanimente string (1994 case of the disable, if to enable if the disable, if to enable if to disable. If to enable if to disable, if to enable if to disable, if to enable if to disable, if to enable

Type present to change the password.

Type "o" for HELP, "Y" for correct settings or "quit" to cave-and-exit. Or type "exit" to exit without sorting configuration parameter catrics.



It was obvious to me this was no UNIX machine and it successor in VAXVVMS. The BPD-chicco sign large bolds through. Howhere became Coasid in he that this was a gointer? By typing "F" I received various bits of infographon, all showing one the current setup, including (Plassignments, options for DBICT) even an option set the admin password! Some enough, it was a printer all right. And I had anyunged to water fight in.

Here I was, with complete control over the configuration, But when could be dene? All stats of thoughts went through my mind. With a few simple formmands I could change the levelitor of the printer to anywhere in the world photoly receiving every print job that sensoons could then mediate. And in a university, who would notice if their paper went to the writing machine? It's containly not the type of thing the admins go cracy about. But still, using my backer chies I didn't do this. After all, I was not one arminis about the idea of remote controllable printers than anything class. If any of you combine alters out there are working about the possibilities, you shouldn't have to thank very long.

The problem here is one that has both account is over the 1980's and even surfax - proptic poteware of the foot that have an open shour in the world. All of you old-timers remember the dealings that didn't require a passe word. Well, this is presty much the secure thing. They have apprehend INAX and VAXVIVAIS like a formers, and yes forget about the small deals. Few propies set a pointer as a device to be overcomed about. But the fact it, intelligent perpendict do passe a threat. Without personned percent on on all your machines, any alterior creat game access and may even boost up their privileges. The HP declined that I bound is only half the story. Some percent make a remaining on a UNIX platform running on these anathers are not before reflecting anathers are a deviced retained to the final finger flux to have a few). The store we can all see the dauger in their

The bettom line is this. If you're using intelligent peripherals be suce to served them with a passwood. If you're using the HP SerDirect, all you need to do it use the admin mility and set a password. It's as simple so "oping "password", and if you don't do it, who will?

Thanks to Thembooks and Dereal for stein belg, and a big photocourse Dath Interrept

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### Happenings

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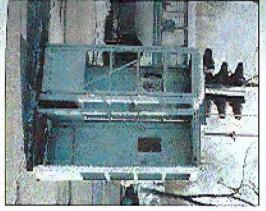
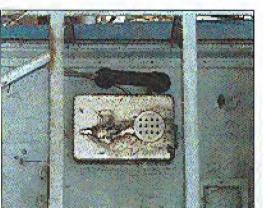


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